

# **EXHIBIT B**

## **Filed Under Seal**

Case No. 3:20-cv-06754-WHA  
Related to Case No. 3:21-cv-07559-WHA

# Sonos v. Google

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Dr. Kevin Almeroth

- Infringement
- Damages-Related Technical Issues
- Validity

## Education



**Georgia Institute of Technology**

Ph.D. Computer Science 1997

M.S. Computer Science 1994

B.S. Computer Science 1992

## Academic Appointments



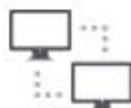
**Professor Emeritus, Dept. of Computer Science**  
UC Santa Barbara (2020-Present)

**Professor, Dept. of Computer Science**  
UC Santa Barbara (1997-2020)

**Vice Chair, Dept. of Computer Science**  
UC Santa Barbara (2001-2005)

**Associate Dean, College of Engineering**  
UC Santa Barbara (2007-2009)

## Research Experience



**25+ years** of experience as a computer networking researcher



**Approximately 200** peer-reviewed publications



**19** released software systems

## Relevant Experience



### Research themes include:

- Streaming media in the Internet
- Delivery of multimedia content between computing devices
- Wireless networking



I E T F

### Active in Internet Engineering Task Force (IETF) for 20+ years:

- Developed standards to support multimedia data delivery
- Developed standards to support network monitoring & management

## Industry Collaborations

HITACHI

OCCAM NETWORKS

IBM



JUNIPER NETWORKS



U.S. AIR FORCE



PROCKET NETWORKS



## Awards & Honors

- Numerous teaching awards
- Numerous honors and awards for original research
- Recognized as IEEE Fellow



# Overview of '885 and '966 Patents

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## SONOS's Zone Scene Patents

SONOS

'885

(12) United States Patent  
Lambourne(10) Patent No.: US 10,848,885 B2  
(45) Date of Patent: \*Nov. 24, 2020

## (54) ZONE SCENE MANAGEMENT

(71) Applicant: SONOS, INC., Santa Barbara, CA (US)

(72) Inventor: Robert A. Lambourne, Santa Barbara, CA (US)

(73) Assignee: Sonos, Inc., Santa Barbara, CA (US)

(\* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.  
This patent is subject to a terminal disclaimer.

(21) Appl. No. 16383,561

(22) Filed: Apr. 12, 2019

## (65) Prior Publication Data

US 2019/0236000 A1 Aug. 1, 2019

## Related U.S. Application Data

(66) Continuation of application No. 15/130,919, filed on Apr. 15, 2016, which is a continuation of application (Continued)

(51) Int. CL:  
G06F 17/00 (2019.01)  
H04R 27/00 (2006.01)

(Continued)

(52) U.S. CL:  
CPC — H04R 27/00 (2013.01), G06B 15/02 (2013.01), G06F 3/042 (2013.01)

(Continued)

(58) Field of Classification Search:  
CPC — H04R 27/00; H04R 3/12; H04R 2227/005;  
H04R 2400/01; G06B 15/02;

(Continued)

## (56) References Cited

## U.S. PATENT DOCUMENTS

3,956,581 A 3,1976 Gates, R  
4,105,974 A X1976 Rogers  
(Continued)

## FOREIGN PATENT DOCUMENTS

CA 2120451 A1 3,2061  
CN 198757 A 3,2065  
(Continued)

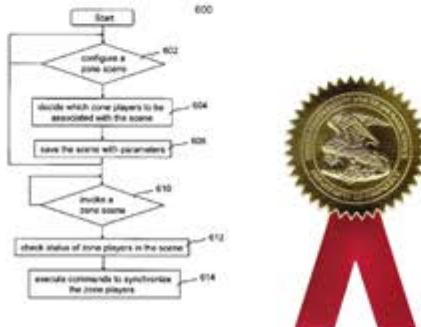
## OTHER PUBLICATIONS

Yamaha DMR Designer 3.5 user manual (Year 2004)\*  
(Continued)

## (57) ABSTRACT

An example playback device in a first zone of a media playback system receives a first indication that the first zone has been added to a first zone scene including a first preconfigured grouping of zones including the first zone and a second zone. The playback device receives a second indication that the first zone has been added to a second zone scene including a second preconfigured grouping of zones including the first zone and a third zone. After a given one of the first and second zone scenes has been selected for invocation, the playback device receives an instruction to operate in accordance with the given zone scene, and based on the instruction, begins operating in accordance with the given zone scene such that the playback device is configured to play back audio in synchrony with one or more other playback devices in the media playback system.

28 Claims, 11 Drawing Sheets



SONOS

'966

(12) United States Patent  
Lambourne(10) Patent No.: US 10,469,966 B2  
(45) Date of Patent: Nov. 5, 2019

## (54) ZONE SCENE MANAGEMENT

(71) Applicant: SONOS, INC., Santa Barbara, CA (US)

(72) Inventor: Robert A. Lambourne, Santa Barbara, CA (US)

(73) Assignee: Sonos, Inc., Santa Barbara, CA (US)

(\* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No. 14/033,565

(22) Filed: Apr. 12, 2019

## (65) Prior Publication Data

US 2019/0236000 A1 Aug. 1, 2019

## Related U.S. Application Data

(66) Continuation of application No. 15/130,919, filed on Apr. 15, 2016, which is a continuation of application (Continued)

(51) Int. CL:  
G06F 17/00 (2019.01)  
H04R 27/00 (2006.01)

(Continued)

(52) U.S. CL:  
CPC — H04R 27/00 (2013.01), G06B 15/02 (2013.01), G06F 3/042 (2013.01)

(Continued)

(58) Field of Classification Search:  
CPC — H04R 27/00; H04R 3/12; H04R 2227/005;  
H04R 2400/01; G06B 15/02;

(Continued)

## (56) References Cited

## U.S. PATENT DOCUMENTS

3,956,581 A 3,1976 Gates, R  
4,105,974 A X1976 Rogers  
(Continued)

## FOREIGN PATENT DOCUMENTS

CA 2120451 A1 3,2061  
CN 198757 A 3,2065  
(Continued)

## OTHER PUBLICATIONS

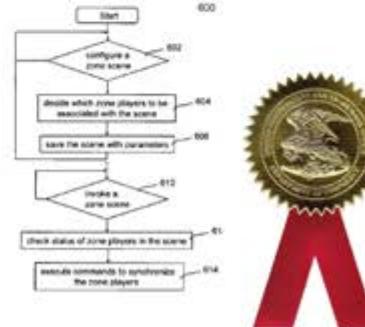
Yamaha DMR Designer 3.5 user manual (Year 2004)\*  
(Continued)

## Prior Examiner — Paul C McCord

## (57) ABSTRACT

An example computing device in a media playback system receives a first request to create a first zone scene including a first preconfigured grouping of zones including a first zone and a second zone, and based on the first request, causes creation and storage of the first zone scene. The computing device receives a second request to create a second preconfigured grouping of zones including the first zone and a third zone, and based on the second request, causes creation and storage of the second zone scene. While displaying a representation of the first zone scene and a representation of the second zone scene, the computing device receives a third request to invoke the first zone scene, and based on the third request, causes the first zone scene to be invoked such that the first zone and the second zone become configured for synchronous playback of media.

20 Claims, 13 Drawing Sheets



TX0003

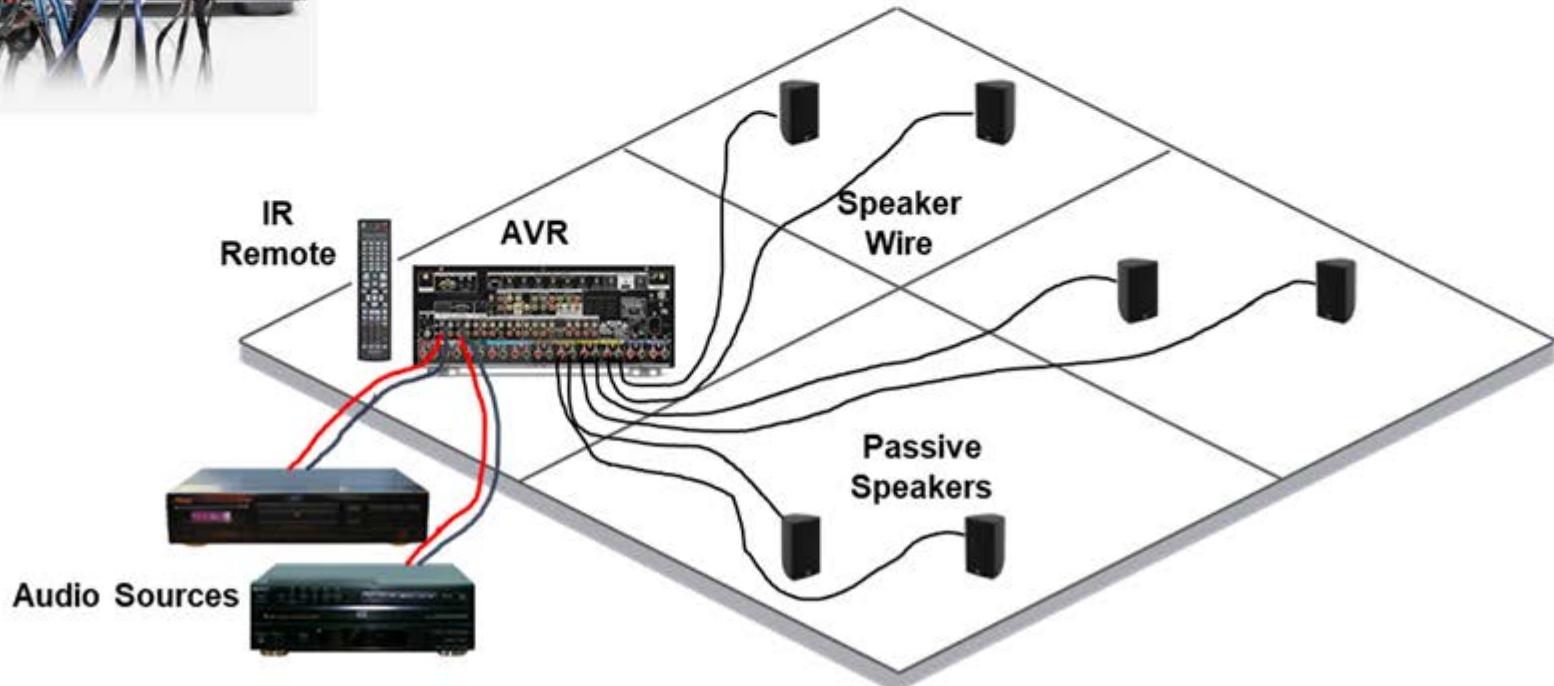
3-20-cv-06754-WHA

TX0001

3-20-cv-06754-WHA

# State-of-the-Art –

## Conventional Home Audio System in 2005



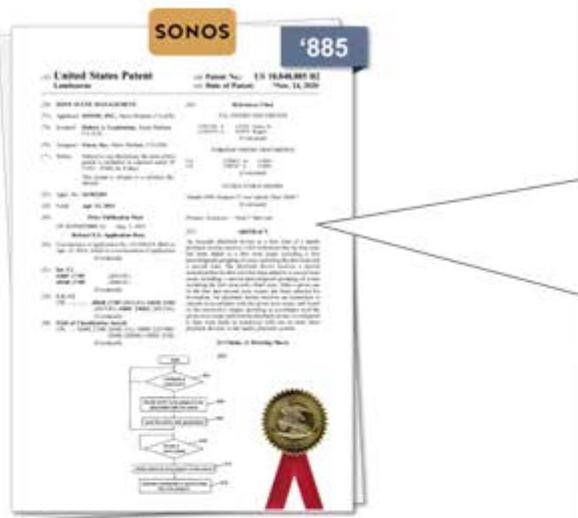
# Court's "Zone Scene" Construction

Claim Term	Sonos Patents	Court's Construction
"zone scene"	'885 Patent '966 Patent	<b>"a previously-saved grouping of zone players according to a common theme"</b>
"indication that the first zone player has been added to a ... zone scene"	'885 Patent	"Indication from the network device that the zone player has been added by the user to a zone scene"



TX0003  
2:20-cv-06754-WHA

TX0001  
2:20-cv-06754-WHA



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ported from a member (e.g., a controller) to other members in the scene so that the players are caused to synchronize an operation configured in the scene. The operation may cause all players to play back song in identical or different volumes or to play back a pre-stored file.

One of the features, benefits and advantages in the present invention is to allow sets of related devices (controllers and operating components) to exist as a group without interfering with other components that are potentially visible on the same wired or wireless network. Each of the sets is configured to a theme or a scene.

FIG. 7 shows an example user interface for invoking a zone scene. The user interface of FIG. 7 shows a Zone Menu that includes selectable indications of zone scenes.

FIG. 8 shows another example user interface for invoking a zone scene. FIG. 8 shows a Zone Menu that includes a softkey indicating a Scenes menu. Pressing the Scenes softkey will show the Scenes menu where all the available zone scenes are shown with selectable indications.

The present invention has been described in sufficient detail with a certain degree of particularity. It is understood to those skilled in the art that the present disclosure of embodiments has been made by way of examples only and that numerous changes in the arrangement and combination of parts may be resorted without departing from the spirit and scope of the invention as claimed. While the embodiments discussed herein may appear to include some limitations as to the presentation of the information units, in terms of the format and arrangement, the invention has applicability well beyond such embodiment, which can be appreciated by those skilled in the art. Accordingly, the scope of the present invention is defined by the appended claims rather than the foregoing description of embodiments.

## I claim:

1. A first zone player comprising:  
a network interface that is configured to communicatively couple the first zone player to at least one data network, one or more processors, a non-transitory computer-readable medium, and program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:  
while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:  
  - (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and
  - (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;

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after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;

after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and

based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players.

2. The first zone player of claim 1, wherein the instruction to operate in accordance with the given one of the first and second zone scenes comprises an instruction to operate in accordance with the first zone scene, and

wherein transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players comprises transitioning from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to play back output media in synchrony with output of media by at least the second zone player.

3. The first zone player of claim 2, wherein the instruction is a first instruction, and wherein the first zone player further comprises program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:

while operating in accordance with the first predefined grouping of zone players, receiving, from the network device over the data network, a second instruction to operate in accordance with the second predefined grouping of zone players; and  
based on the second instruction, (a) ceasing to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) beginning to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

4. The first zone player of claim 2, wherein the first zone

further comprises an indication of predetermined media to be played when the first zone scene is invoked, and wherein the first zone player further comprises program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:

- [1.0] A first zone player comprising:
- 
- [1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;
- 
- [1.2] one or more processors;
- 
- [1.3] a non-transitory computer-readable medium; and
- 
- [1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:
- 
- [1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:
- 
- [1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and
- 
- [1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;
- 
- [1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;
- 
- [1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and
- 
- [1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

- [1.0] A first zone player comprising:
- [1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;
- [1.2] one or more processors;
- [1.3] a non-transitory computer-readable medium; and
- [1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:
- [1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:
- [1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and
- [1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;
- [1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;
- [1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and
- [1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

- [1.0] A first zone player comprising:
- [1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;
- [1.2] one or more processors;
- [1.3] a non-transitory computer-readable medium; and
- [1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:
- [1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:
- [1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and
- [1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;
- [1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;
- [1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and
- [1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

- [1.0] A first zone player comprising:
  - [1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;
  - [1.2] one or more processors;
  - [1.3] a non-transitory computer-readable medium, and
  - [1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:

**[1.5]** while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:

**[1.6]** (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and

**[1.7]** (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;

**[1.8]** after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;

**[1.9]** after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and

**[1.10]** based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

- [1.0] A first zone player comprising:
- [1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;
- [1.2] one or more processors;
- [1.3] a non-transitory computer-readable medium, and
- [1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:
- [1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:
- [1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and
- [1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;
- [1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;
- [1.9]** after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and
- [1.10]** based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

754-WHA Document 864-35 Filed 09/05/23  
EXHIBIT B - FILED UNDER SEAL

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ported from a member (e.g., a controller) to other members in the scene so that the players are caused to synchronize an operation configured in the scene. The operation may cause all players to play back a song in identical or different volumes or to play back a pre-stored file.

One of the features, benefits and advantages in the present invention is to allow sets of related devices (controllers and operating components) to exist as a group without interfering with other components that are potentially visible on the same wired or wireless network. Each of the sets is configured as a theme or a scene.

FIG. 7 shows an example user interface for invoking a zone scene. The user interface of FIG. 7 shows a Zone Menu that includes selectable indications of zone scenes.

FIG. 8 shows another example user interface for invoking a zone scene. FIG. 8 shows a Zone Menu that includes a softkey indicating a Scenes menu. Pressing the Scenes softkey will show the Scenes menu where all the available zone scenes are shown as selectable indications.

The present invention has been described in sufficient detail with a certain degree of particularity. It is understood by those skilled in the art that the present disclosure of embodiments has been made by way of examples only and that numerous changes in the arrangement and combination of parts may be resorted without departing from the spirit and scope of the invention as claimed. While the embodiments discussed herein may appear to include some limitations as to the presentation of the information units, in terms of the format and arrangement, the invention has applicability well beyond such embodiment, which can be appreciated by those skilled in the art. Accordingly, the scope of the present invention is defined by the appended claims rather than the foregoing description of embodiments.

FURTHER

**I. A computing device comprising: one or more proces-**

a non-transitory computer-readable medium; and program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:  
while serving as a controller for a networked media playback system comprising a first nose player and at least two other nose players, wherein the first nose player is operating in a standalone mode in which the first nose player is configured to play back media individually.

receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked, based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;

receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is activated, wherein the third zone player is different than the second zone player;

scene; displaying a representation of the first zone scene and a representation of the second zone scene and while displaying the representation of the first zone scene and the representation of the second zone scene receiving a third request to invoke the first zone scene and

based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

2. The computing device of claim 1, further comprising program instructions stored on the non-transitory computer readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:

while the first zone player is configured to coordinate with at least the second zone player to play back media synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene and based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.

3. The computing device of claim 1, wherein causing storage of the first zone scene comprises causing storage of the first zone scene at a location other than the computing device, and wherein causing storage of the second zone scene comprises causing storage of the second zone scene at the location other than the computing device.

4. The computing device of claim 3, wherein the location other than the computing device comprises a zone player or the first predefined among of zone players.

5. The computing device of claim 1, wherein the first zone scene further comprises an indication of predetermined media to be played when the first zone scene is invoked, and wherein the computing device further comprises program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:

based on the third request, causing the first zone player to coordinate with at least the second zone player to output the predetermined media in synchrony with the output of the predetermined media by at least the second zone player.

6. The computing device of claim 1, wherein the first predefined grouping of zone players does not include the third zone player, and wherein the second predefined grouping of zone players does not include the second zone player.

7. The computing device of claim 1, further comprising program instructions stored on the non-transitory computer readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:

[1.0] A computing device comprising:

[1.1] one or more processors;

[1.2] a non-transitory computer-readable medium; and

[1.3] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:

[1.4] while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:

[1.5] receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;

[1.6] based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;

[1.7] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;

[1.8] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;

[1.9] displaying a representation of the first zone scene and a representation of the second zone scene; and

[1.10] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and

[1.11] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

## 900 Patent Claim I

[1.0] A computing device comprising:

[1.1] one or more processors;

[1.2] a non-transitory computer-readable medium; and

[1.3] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:

[1.4] while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:

[1.5] receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;

[1.6] based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;

[1.7] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;

[1.8] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;

[1.9] displaying a representation of the first zone scene and a representation of the second zone scene; and

[1.10] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and

[1.11] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

## '885 Patent, Claim 1

[1.0] A first zone player comprising:  
[1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;  
[1.2] one or more processors;  
[1.3] a non-transitory computer-readable medium; and  
[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:

## '966 Patent, Claim 1

[1.0] A computing device comprising:  
[1.1] one or more processors;  
[1.2] a non-transitory computer-readable medium; and  
[1.3] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:  
[1.4] while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, ...

## '885 Patent, Claim 1

[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:

[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and

[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;

[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;

## '966 Patent, Claim 1

[1.4] while ...wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:

[1.5] receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;

[1.6] based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;

[1.7] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;

[1.8] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;

[1.9] displaying a representation of the first zone scene and a representation of the second zone scene; and

**'885 Patent, Claim 1**

**[1.9]** after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and

**[1.10]** based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

**'966 Patent, Claim 1**

**[1.10]** while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and

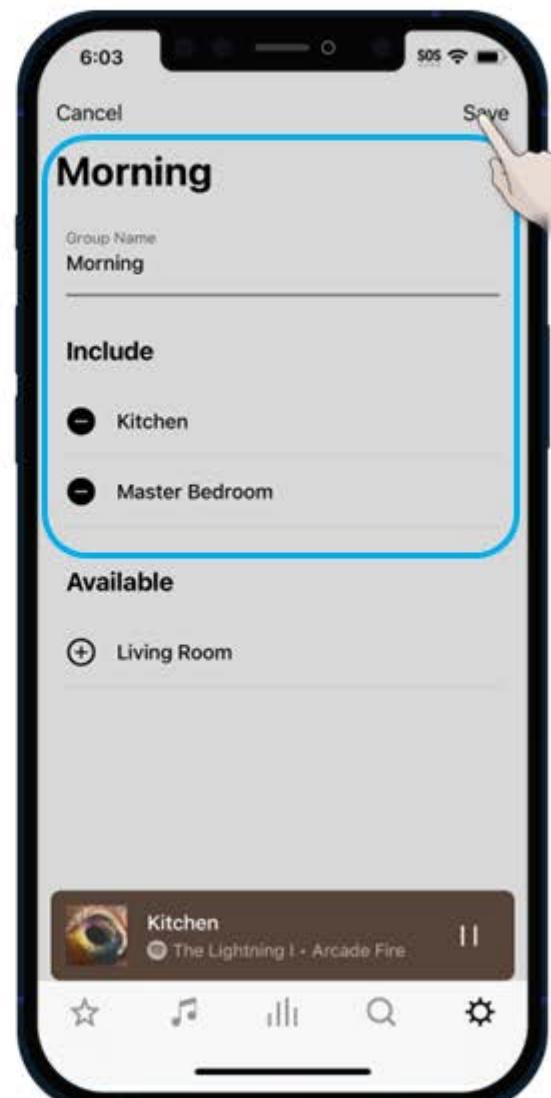
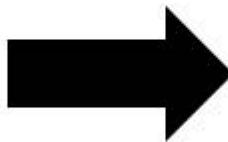
**[1.11]** based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

# Sonos's Current "Zone Scene" Grouping



SONOS

# Sonos's Current "Zone Scene" Grouping

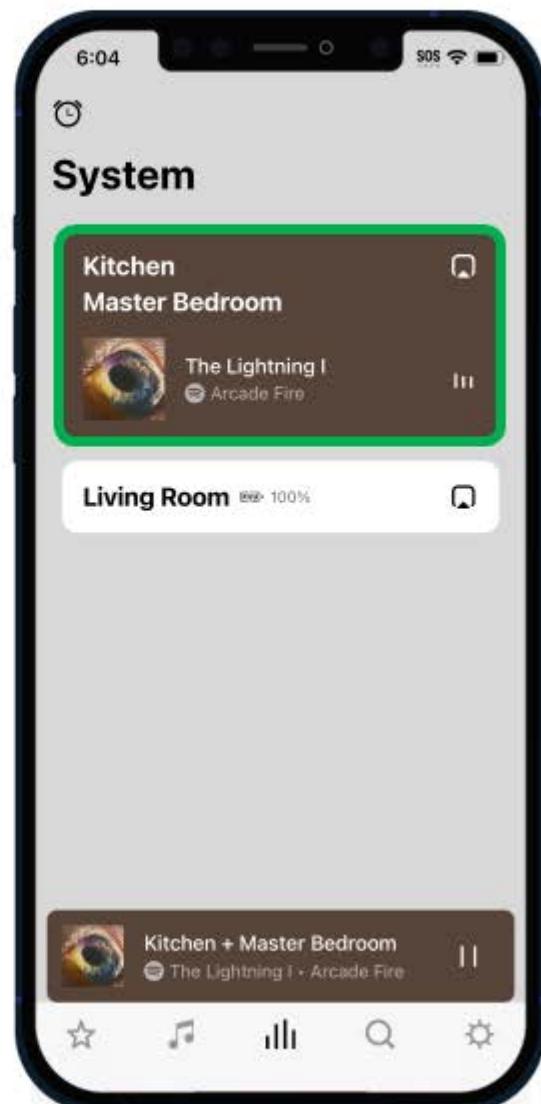
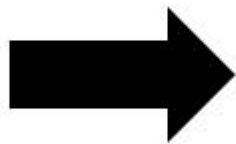
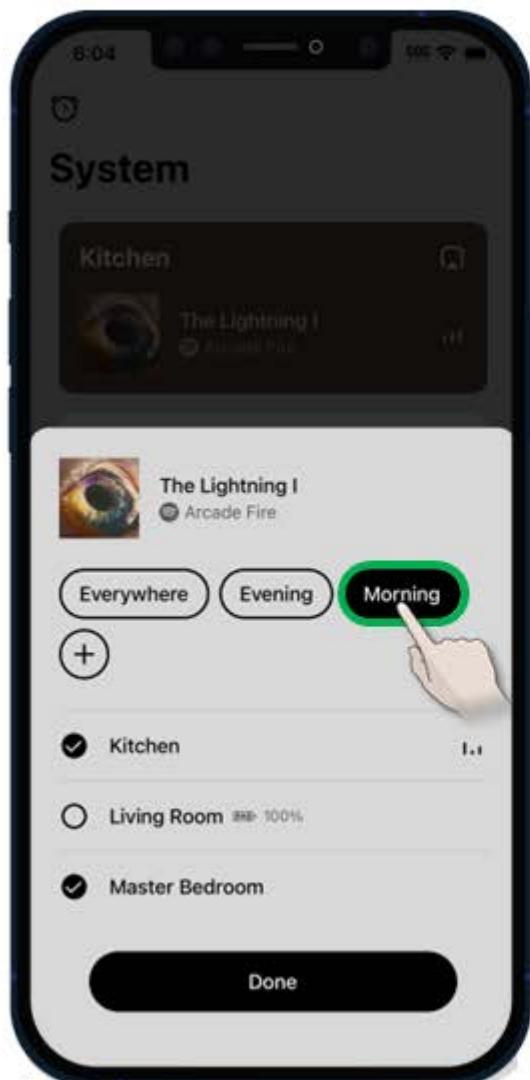


SONOS

TX0440  
3:20-cv-06754-WHA

PDX2.23

# Sonos's Current "Zone Scene" Grouping



TX0440  
3:20-cv-06754-WHA

SONOS

PDX2.24

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EXHIBIT B - FILED UNDER SEAL

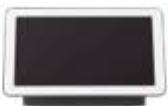
# '885 Accused Products – Google Smart Speakers



Nest  
Audio



Nest  
Mini



Nest  
Hub



Nest  
Hub Max



Nest WiFi  
Point



Chromecast



Chromecast  
Ultra



Chromecast with  
Google TV



Home



Home Mini



Home  
Max

Google



Google Home

Google

## Representative Computing Devices



Google Pixel Phones



Google Pixel Tablets



Google Pixelbooks



Apple



Samsung



Motorola



OnePlus



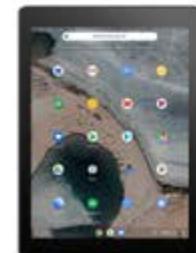
Lenovo



HP



Acer



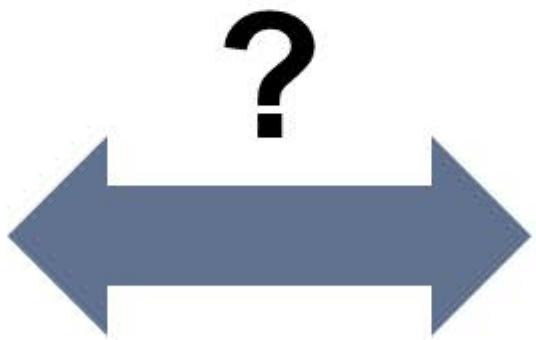
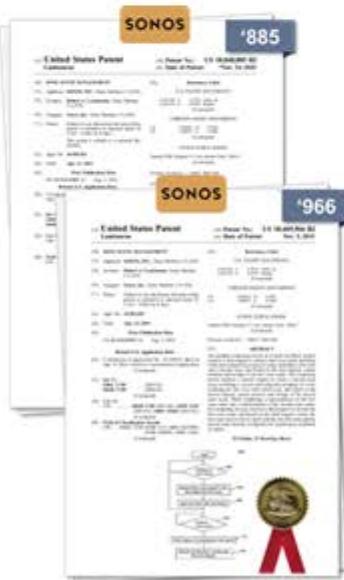
Asus

## Step 1

**Consider the claims and their meaning, including the Court's claim constructions**

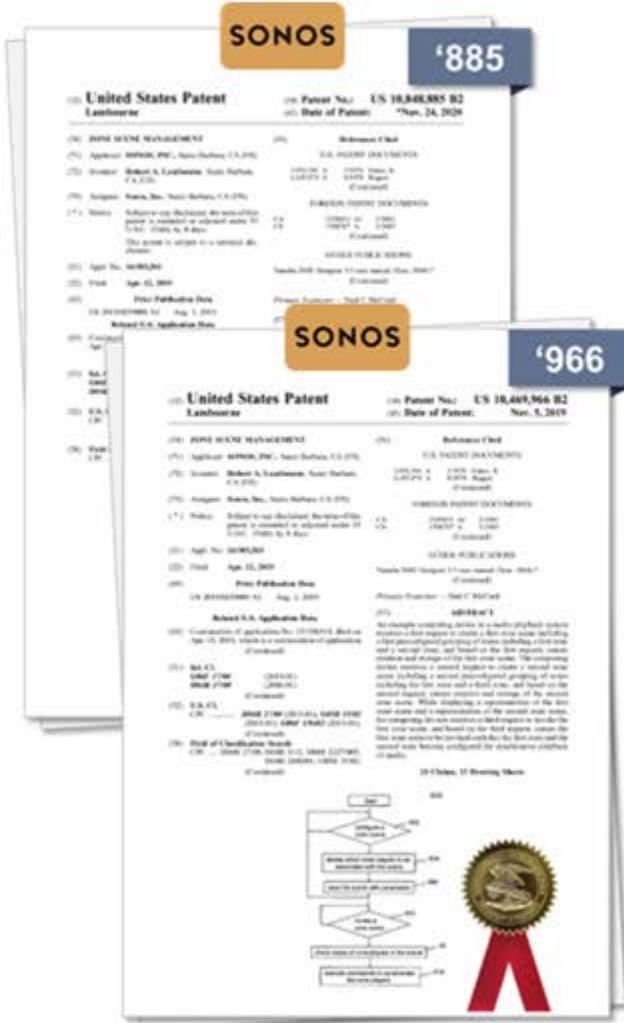
## Step 2

**Compare construed patent claims to Google's products to determine if they meet the elements of the claims**



Google

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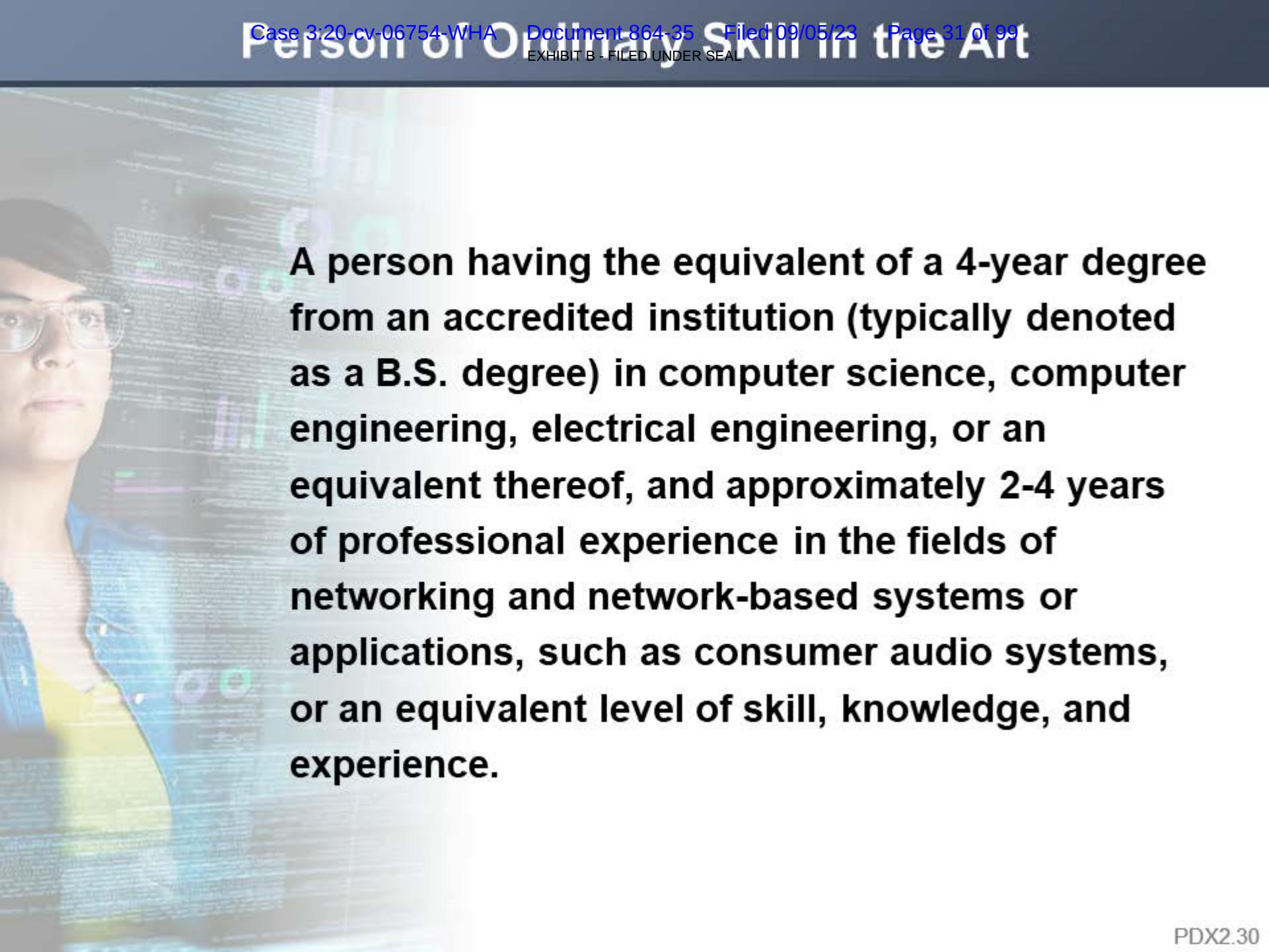


# Sonos Patent Documents

- '885 and '966 Patents
  - File History
  - Claim Constructions

# Court's Claim Constructions

Claim Term	Sonos Patents	Court's Construction
“zone scene”	'885 Patent '966 Patent	<b>“a previously-saved grouping of zone players according to a common theme”</b>
“indication that the first zone player has been added to a ... zone scene”	'885 Patent	<b>“indication from the network device that the zone player has been added by the user to a zone scene”</b>

A semi-transparent background image of a person with glasses and a yellow shirt, looking towards the right. The background is a blurred image of a computer monitor displaying lines of code.

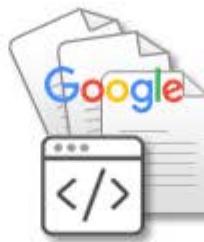
**A person having the equivalent of a 4-year degree from an accredited institution (typically denoted as a B.S. degree) in computer science, computer engineering, electrical engineering, or an equivalent thereof, and approximately 2-4 years of professional experience in the fields of networking and network-based systems or applications, such as consumer audio systems, or an equivalent level of skill, knowledge, and experience.**

# Infringement – Materials Considered



## Sonos Patent Documents

- '885 and '966 Patents
- File History
- Claim Constructions



## Google Documents

- Customer-Facing Literature
- Internal Documents
- Google Source Code



Google

## Sworn Testimony & Admissions

- Kenneth MacKay, Google Senior Software Engineer
- Justin Pedro, Engineer Manager
- Google's Response to Sonos's Interrogatory No. 13



Google

## Google System Testing

- Google Nest Hub Display
- Google Home Mini Speaker
- Google Nest Audio Speaker
- Google Pixel 7 + Google Home, Google YouTube Music, and Spotify Apps
- Google Pixelbook + Google Home, YouTube Music, and Spotify Apps
- iPhone 12 Pro + Google Home, YouTube Music, and Spotify Apps

# Infringement – Assignment

EXHIBIT B - FILED UNDER SEAL

  
Infringes?

## Asserted Claims

## Accused Google Products

## Version

'885 Patent  
Claim 1

Google

**Prior Versions**  
(Nov. 2020 – Present)

?

# Infringement of 885 Patent Claim 1 - Prior Versions

[1.0] A first zone player comprising:

[1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;

[1.2] one or more processors;

[1.3] a non-transitory computer-readable medium; and

[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:

[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:

[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and

[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;

[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;

[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and

[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

# Infringement of 885 Patent Claim 1 - Prior Versions

[1.0] A first zone player comprising:

[1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;

[1.2] one or more processors;

[1.3] a non-transitory computer-readable medium; and

[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:

[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players;

[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and

[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;

[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;

[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and

[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

# Infringement of 885 Patent Claim 1 - Prior Versions

[1.0] A first zone player comprising:

[1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;

[1.2] one or more processors;

[1.3] a non-transitory computer-readable medium; and

[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:

[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players;

[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and

[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;

[1.8] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;

[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and

[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

**REINFORCED**



# Infringement – Assignment

EXHIBIT B - FILED UNDER SEAL

  
Infringes?

## Asserted Claims

## Accused Google Products

## Version

'885 Patent  
Claim 1

Google

**Prior Versions**  
(Nov. 2020 – Present)

# Infringement – Assignment

EXHIBIT B - FILED UNDER SEAL


  
Infringes?
**Asserted Claims****Accused Google Products****Version**

**'885 Patent**  
Claim 1



**'966 Patent**  
Claims  
1, 2, 4, 6, 8


**Representative Computing Devices**

**Prior Versions**  
(Nov. 2020 – Present)



**Prior Versions**  
(Nov. 2019 – Present)

# Infringement of 900 Patent Claim I - Prior Versions

[1.0] A computing device comprising:

[1.1] one or more processors;

[1.2] a non-transitory computer-readable medium; and

[1.3] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:

[1.4] while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:

[1.5] receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;

[1.6] based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;

[1.7] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;

[1.8] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;

[1.9] displaying a representation of the first zone scene and a representation of the second zone scene; and

[1.10] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and

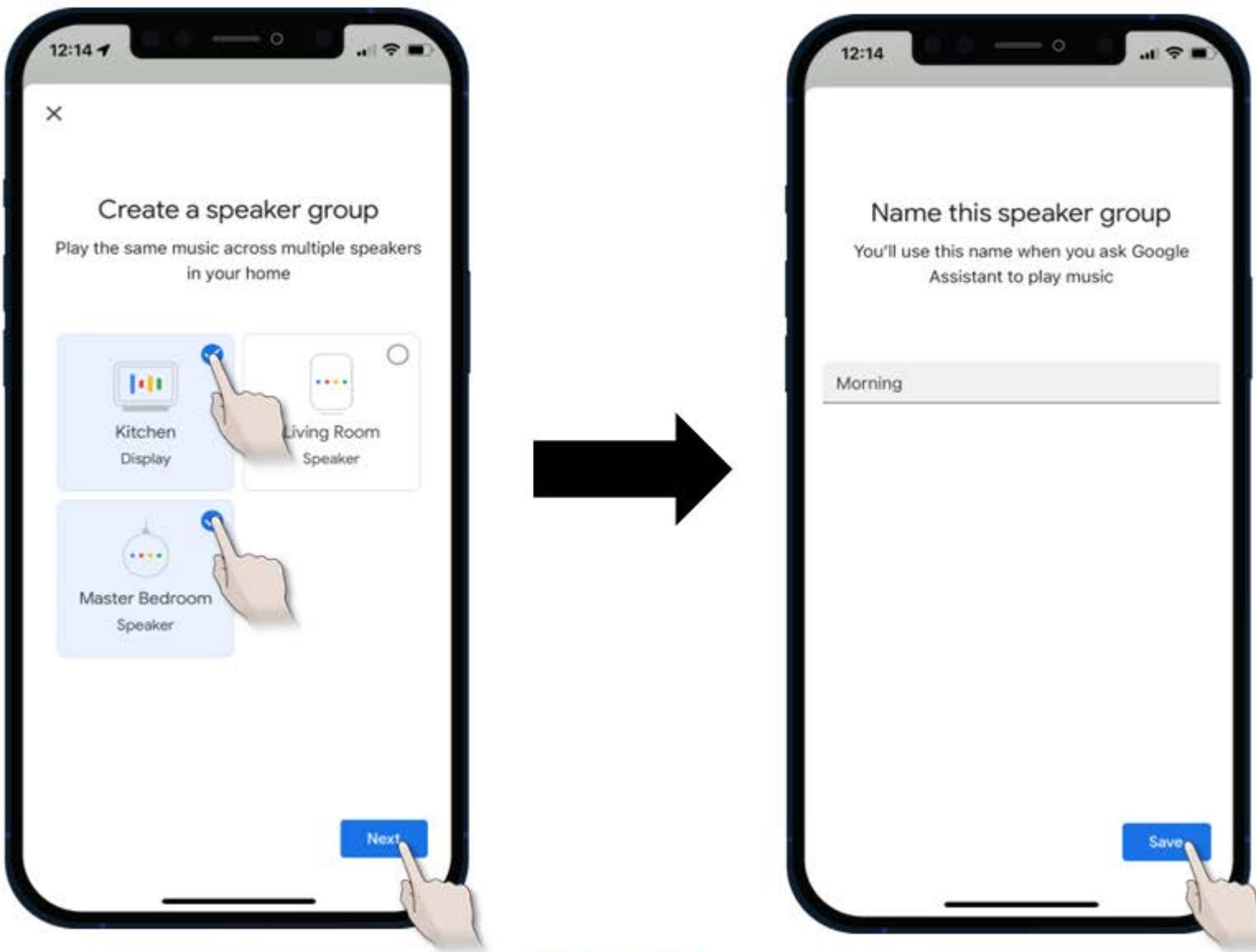
[1.11] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

# Infringement of 906 Patent Claim 1 - Prior Versions

- [1.0] A computing device comprising:
- [1.1] one or more processors;
- [1.2] a non-transitory computer-readable medium; and
- [1.3] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
- [1.4] while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
- [1.5] receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
- [1.6] based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
- [1.7] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
- [1.8] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
- [1.9] displaying a representation of the first zone scene and a representation of the second zone scene; and
- [1.10] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
- [1.11] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

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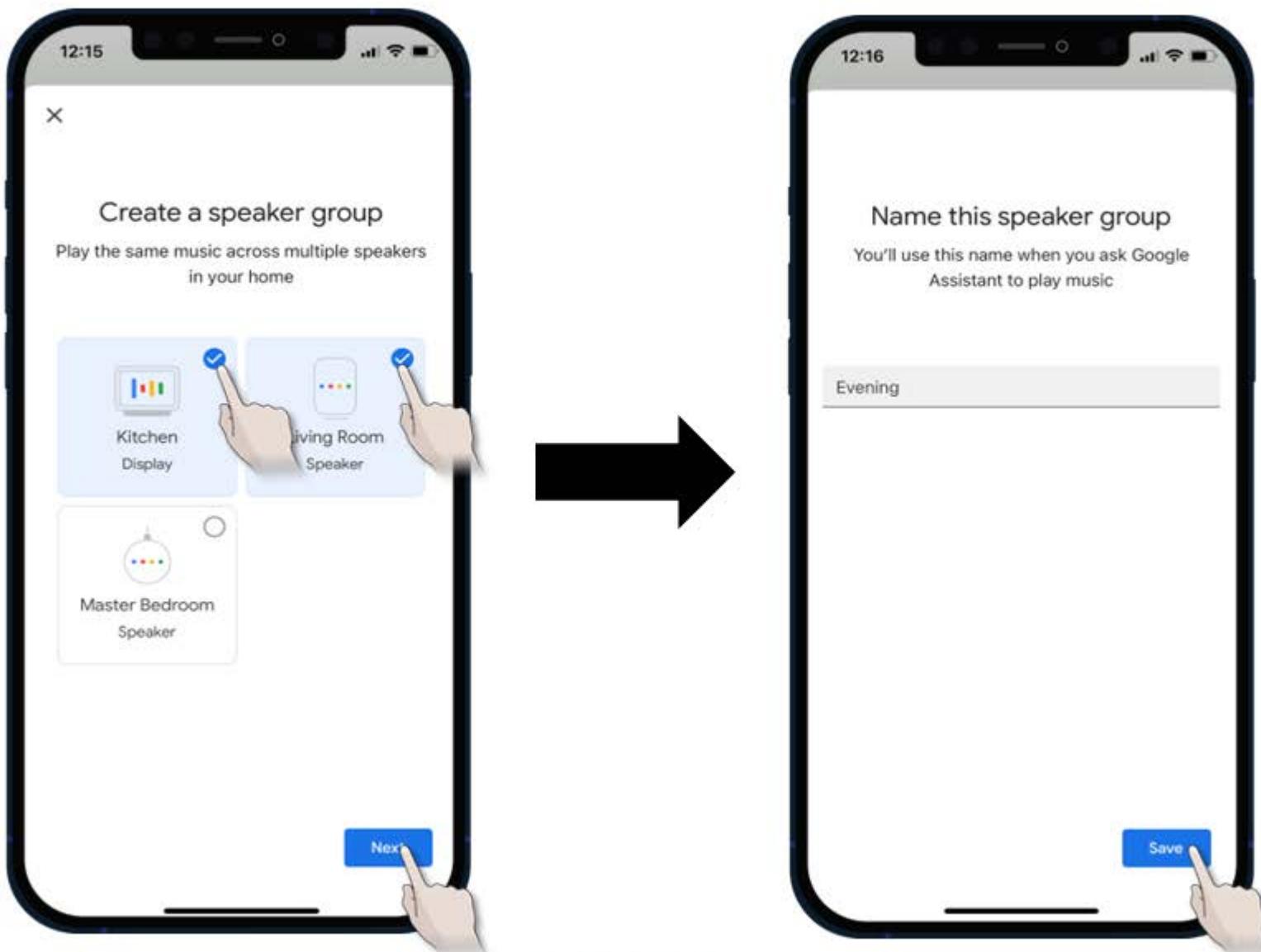
# Google's Speaker Group Technology



Google

TX0441  
3:20-cv-06754-WHA

PDX2.40

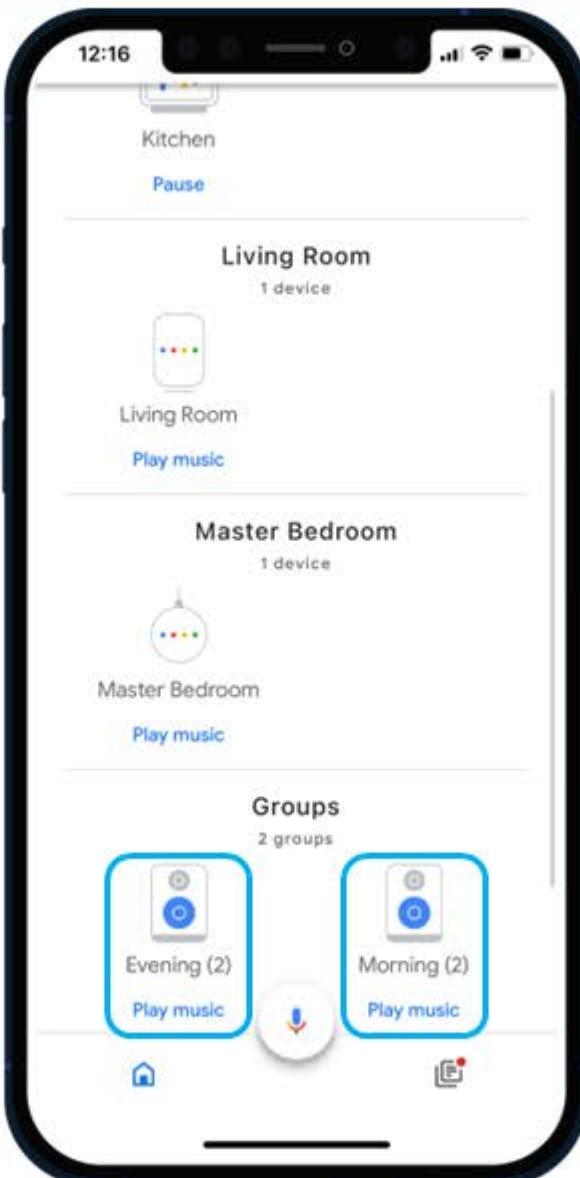


Google

TX0441  
3:20-cv-06754-WHA

PDX2.41

# Google's Speaker Group Technology

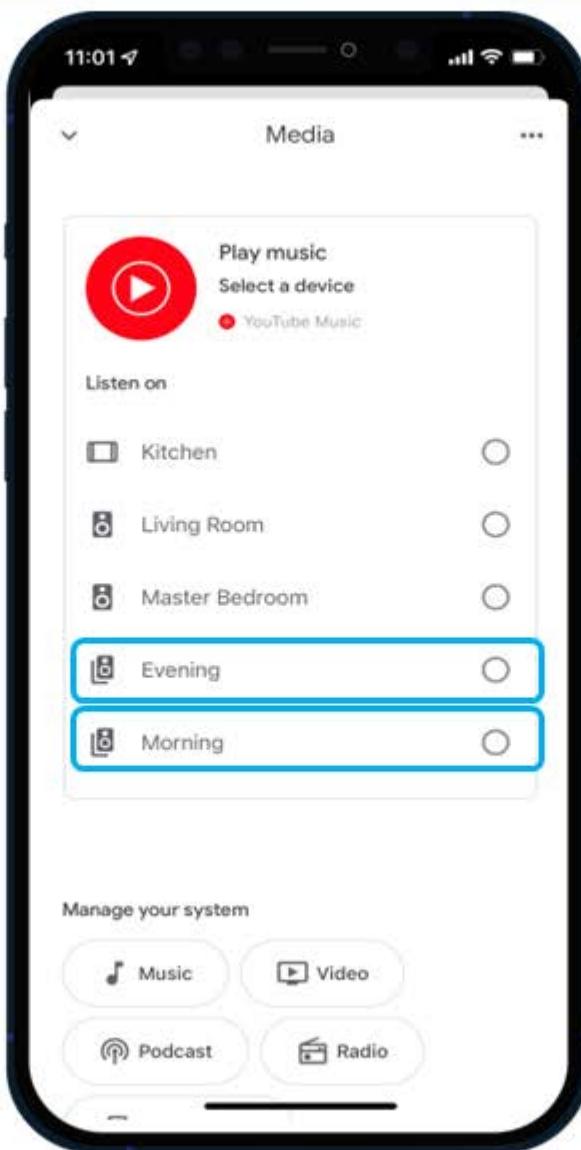


Google

TX0441  
3:20-cv-06754-WHA

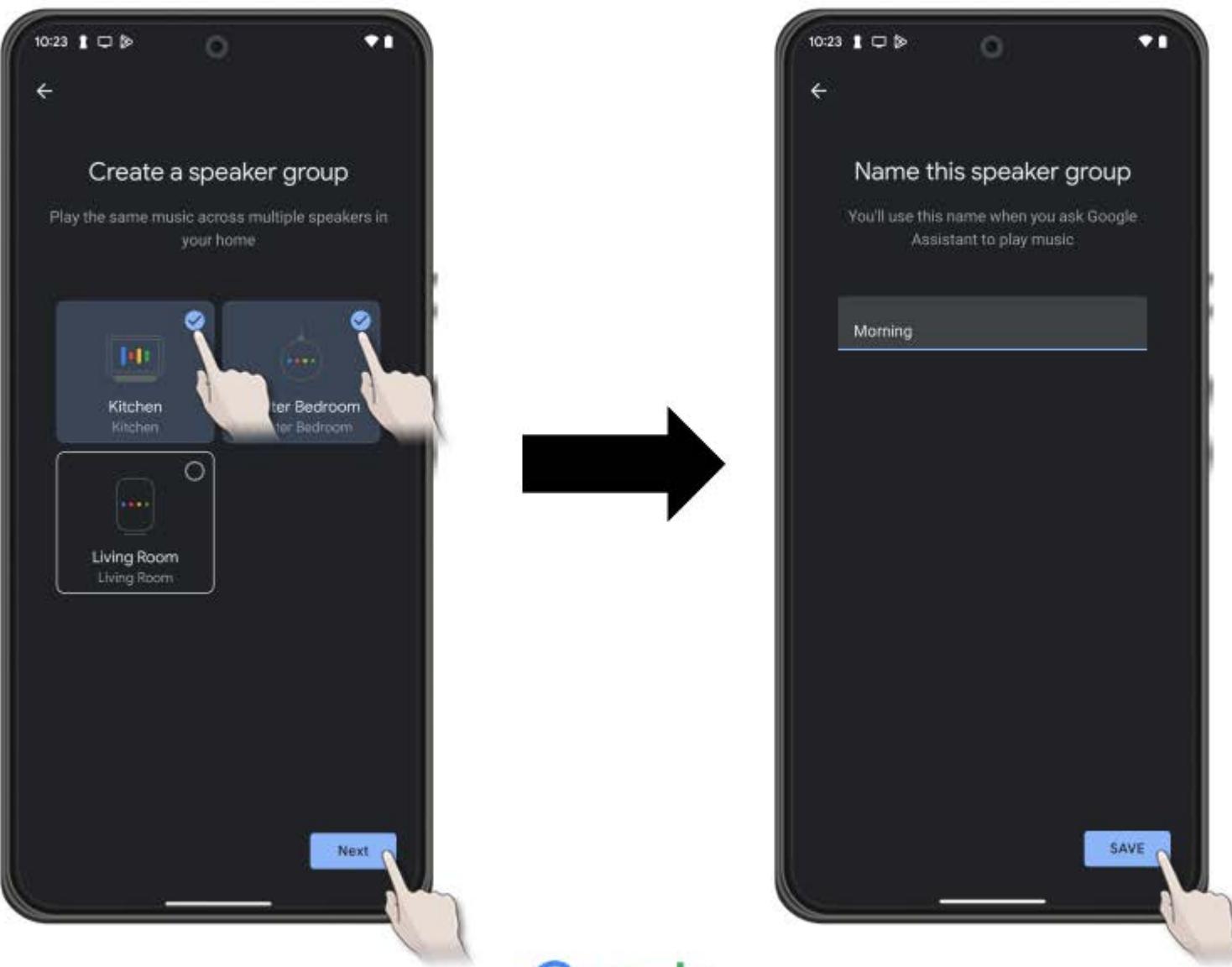
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# Google's Speaker Group Technology



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2:20-cv-06754-WHA

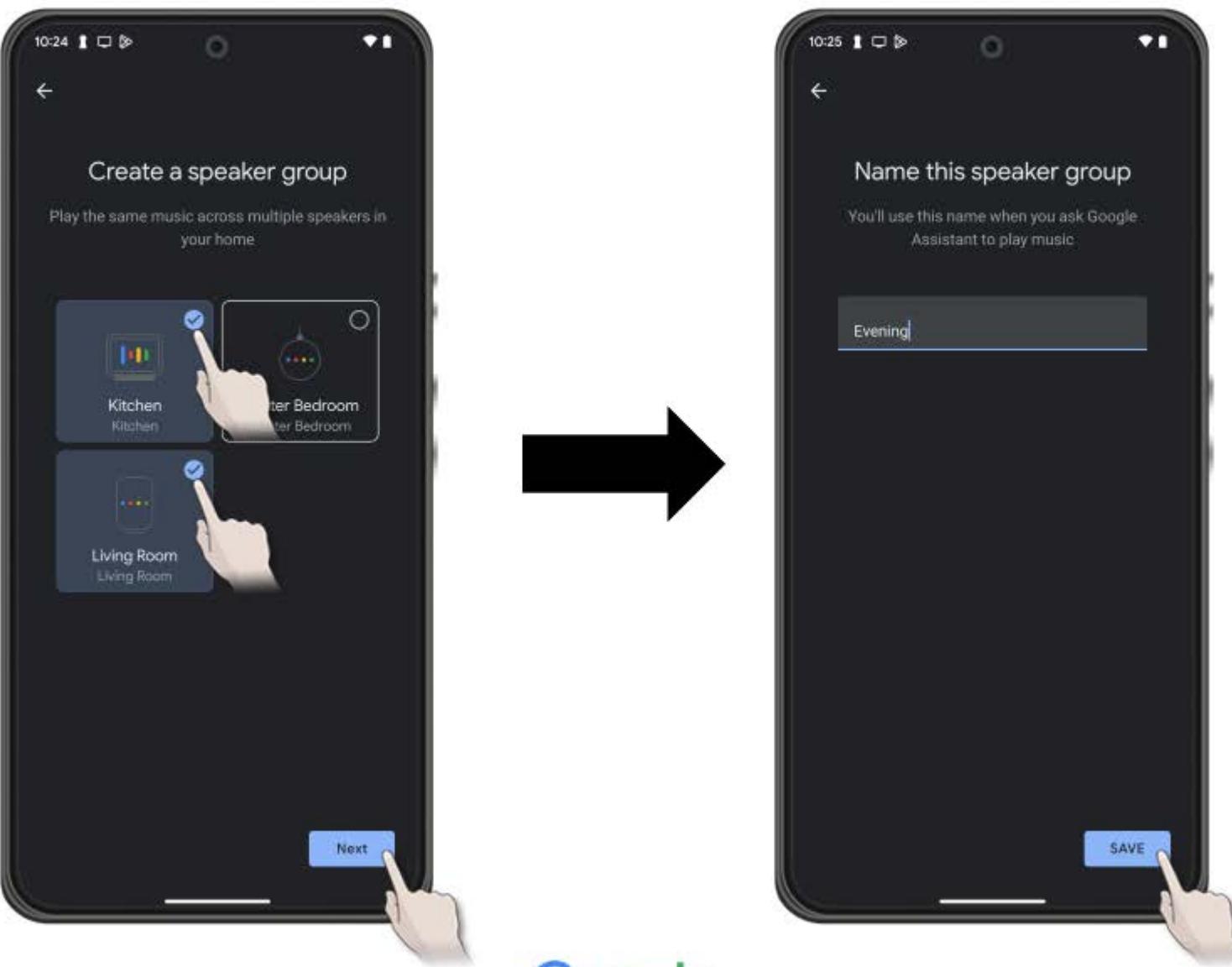
Google



Google

TX0441  
3:20-cv-06754-WHA

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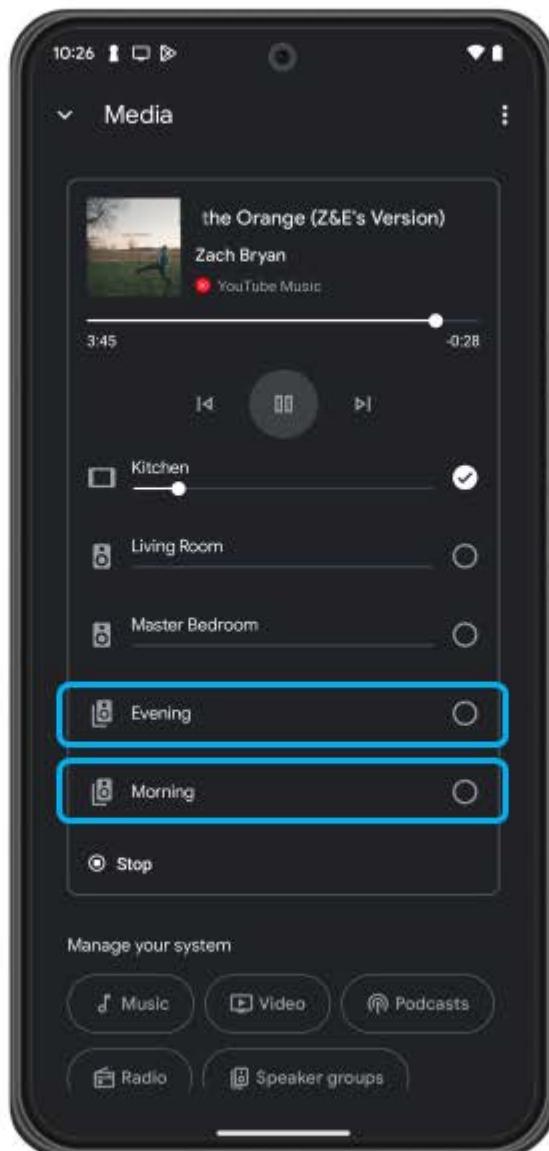


Google

TX0441  
3:20-cv-06754-WHA

PDX2.45

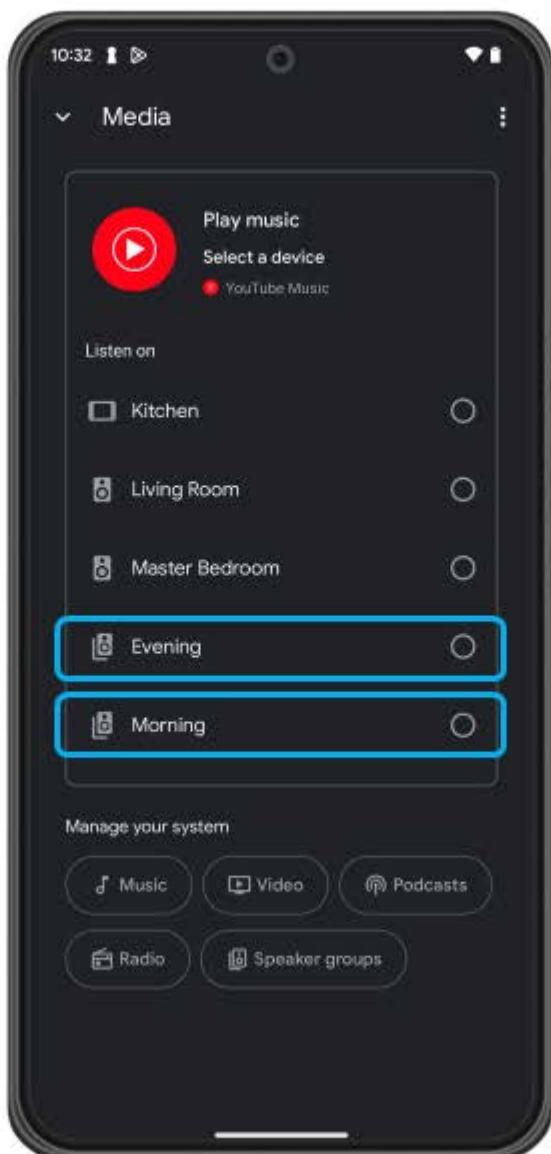
## Google's Speaker Group Technology



TX0441

Google

# Google's Speaker Group Technology



Google

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3:20-cv-06754-WHA

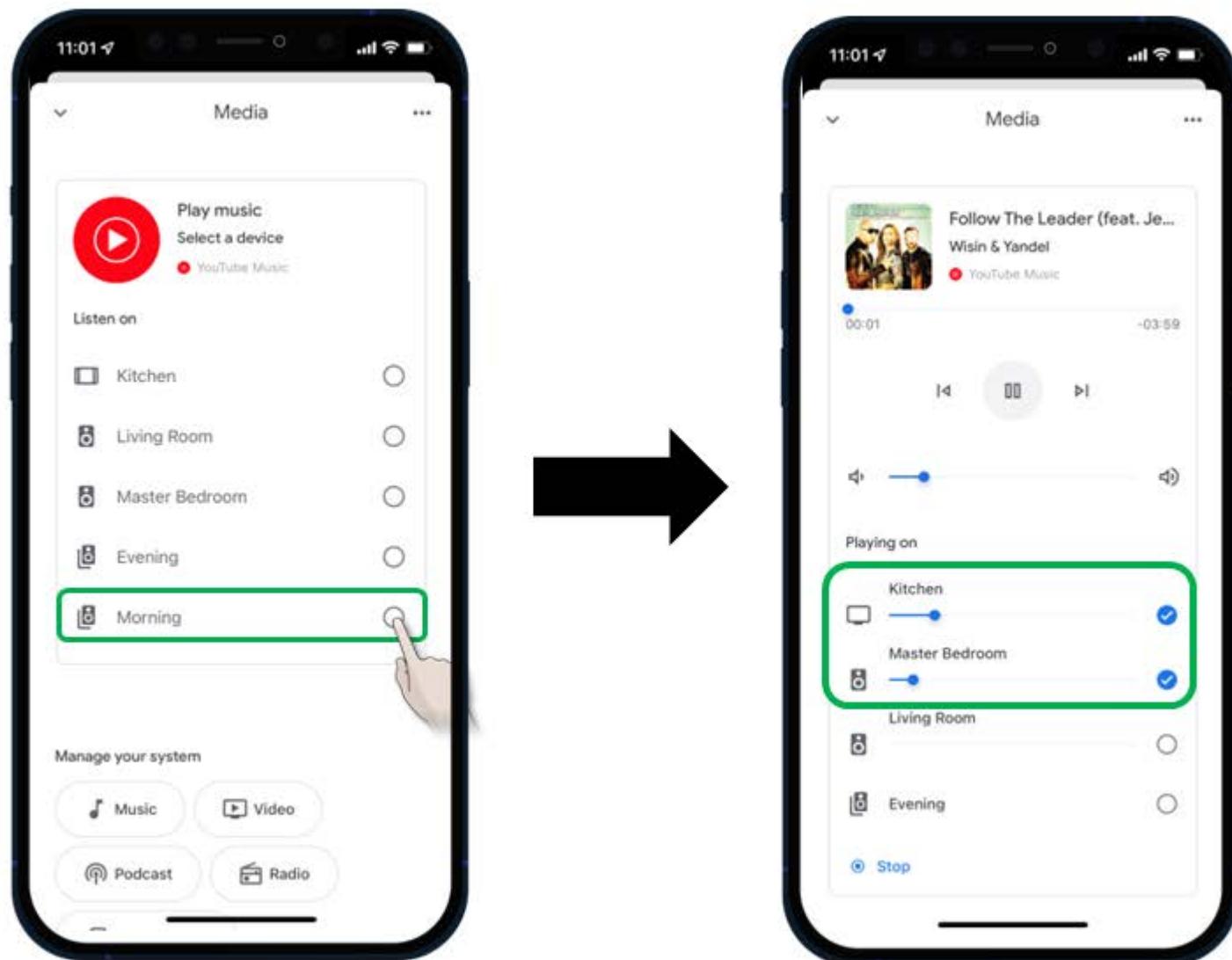
PDX2.47

# Infringement of 906 Patent Claim 1 - Prior Versions

- [1.0] A computing device comprising:
- [1.1] one or more processors;
- [1.2] a non-transitory computer-readable medium; and
- [1.3] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
- [1.4] while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
- [1.5] receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
- [1.6] based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
- [1.7] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
- [1.8] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
- [1.9] displaying a representation of the first zone scene and a representation of the second zone scene; and
- [1.10] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
- [1.11] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

# Infringement of 906 Patent Claim 1 - Prior Versions

- [1.0] A computing device comprising: ✓
- [1.1] one or more processors; ✓
- [1.2] a non-transitory computer-readable medium; and ✓
- [1.3] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising: ✓
- [1.4] while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually: ✓
- [1.5] receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; ✓
- [1.6] based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene; ✓
- [1.7] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player; ✓
- [1.8] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene; ✓
- [1.9] displaying a representation of the first zone scene and a representation of the second zone scene; and ✓
- [1.10] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and ✓
- [1.11] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

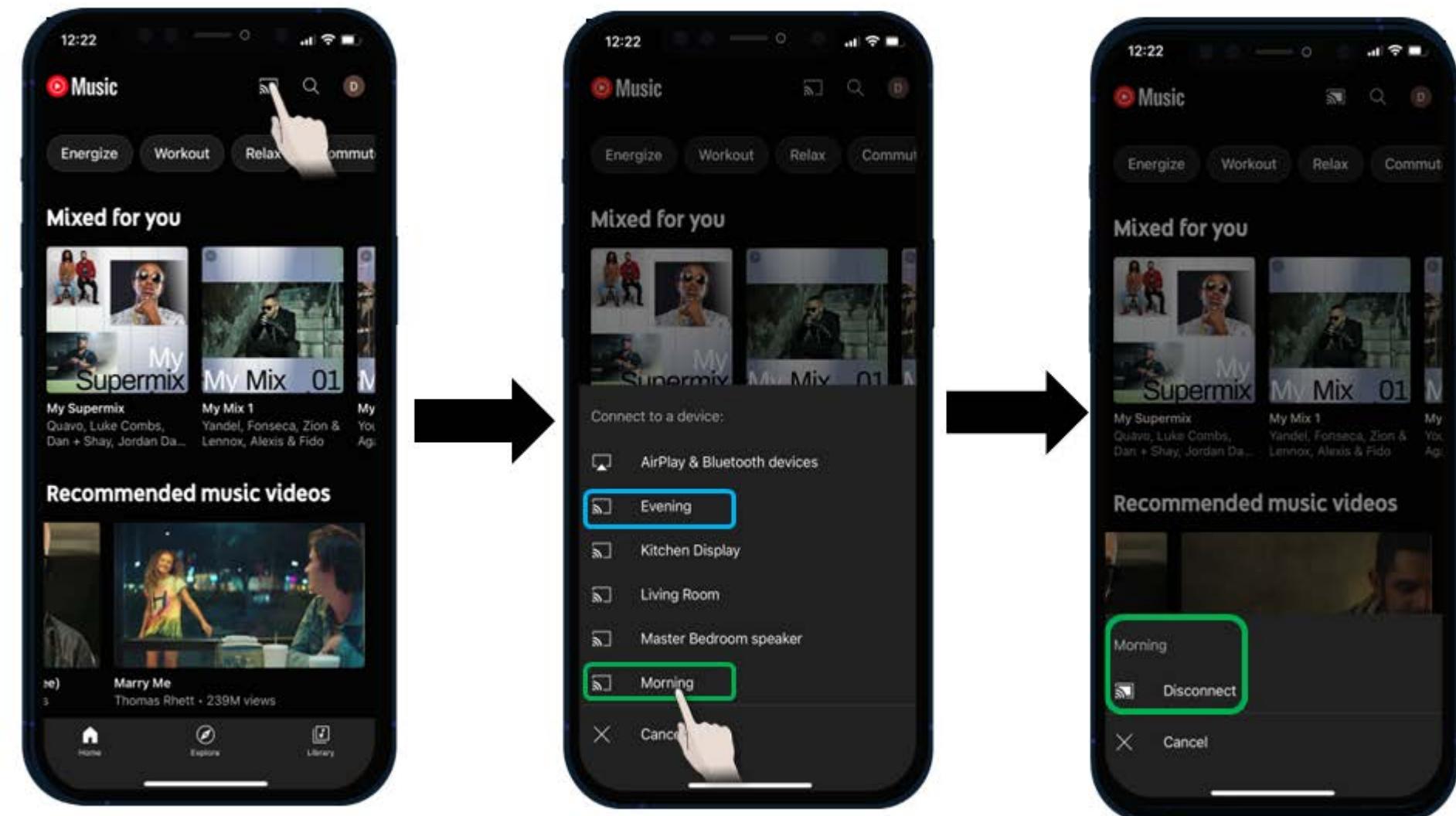


Google

TX0441  
2:20-cv-06754-WHA

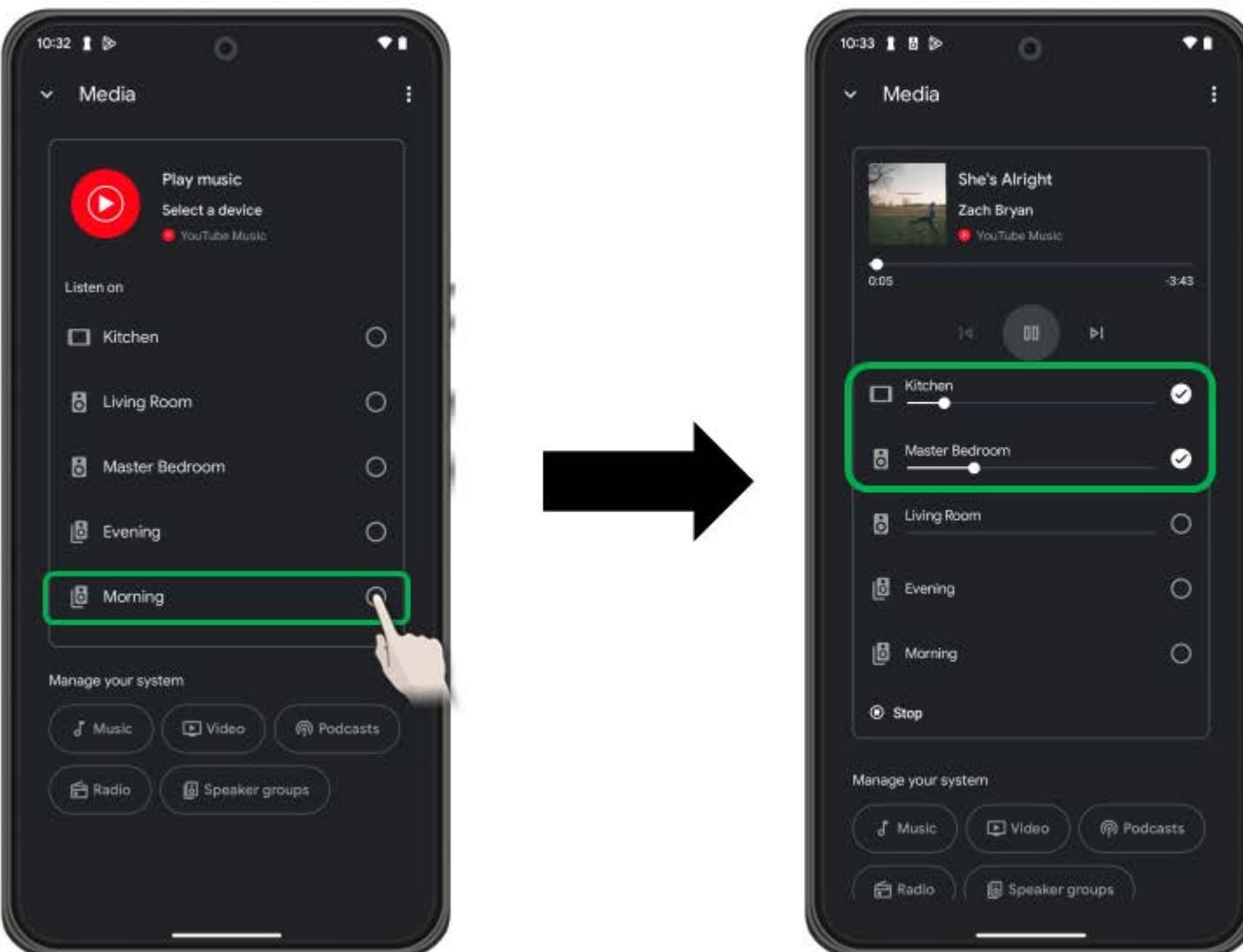
PDX2.50

# Google's Speaker Group Technology



TX0441  
2:20-cv-06754-WHA

PDX2.51



TX0441

3:20-cv-06754-WHA

PDX2.52

# Infringement of 906 Patent Claim 1 - Prior Versions

- [1.0] A computing device comprising:
- [1.1] one or more processors;
- [1.2] a non-transitory computer-readable medium; and
- [1.3] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
- [1.4] while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
- [1.5] receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked;
- [1.6] based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene;
- [1.7] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player;
- [1.8] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
- [1.9] displaying a representation of the first zone scene and a representation of the second zone scene; and
- [1.10] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
- [1.11] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

## Infringement of 900 Patent Claim 1 - Prior Versions

- [1.0] A computing device comprising:
- [1.1] one or more processors;
- [1.2] a non-transitory computer-readable medium; and
- [1.3] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:
- [1.4] while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is operating in a standalone mode in which the first zone player is configured to play back media individually:
- [1.5] receiving a first request to create a first zone scene comprising at least one of a first predefined grouping of zone players including at least the first zone player and a second zone player that is to be configured for synchronous playback of media when the first zone player is involved;
- [1.6] based on the first request, causing the creation of the first zone scene by causing execution of the first zone scene to be transitioned to the first zone player from the standalone mode to a first predefined grouping of zone players including the first zone player and the second zone player;
- [1.7] receiving a second request to invoke a second zone scene comprising a second predefined grouping of zone players including the first zone player and a third zone player that is to be configured for synchronous playback of media when the second zone scene is involved, wherein the third zone player is different than the second zone player;
- [1.8] based on the second request, i) causing execution of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene;
- [1.9] displaying a representation of the first zone scene and a representation of the second zone scene; and
- [1.10] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and
- [1.11] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player.

**INFRINGEMENT**

## '966 Patent, Claim 2 - Prior Versions

## '966 Patent, Claim 2

[2.0] The computing device of claim 1, further comprising program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:

[2.1] while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and

[2.2] based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.



# Infringement of '966 Patent, Claim 4 - Prior Versions

## '966 Patent, Claim 3

[3.0] The computing device of claim 1,



[3.1] wherein causing storage of the first zone scene comprises causing storage of the first zone scene at a location other than the computing device, and



[3.2] wherein causing storage of the second zone scene comprises causing storage of the second zone scene at the location other than the computing device.



## '966 Patent, Claim 4

[4.0] The computing device of claim 3,



[4.1] wherein the location other than the computing device comprises a zone player of the first predefined grouping of zone players.



## '966 Patent, Claim 6

- 
- [6.0] The computing device of claim 1, ✓
- [6.1] wherein the first predefined grouping of zone players does not include the third zone player, and ✓
- [6.2] wherein the second predefined grouping of zone players does not include the second zone player. ✓
- 

## '966 Patent, Claim 8

- 
- [8.0] The computing device of claim 1, ✓
- [8.1] wherein receiving the first request comprises receiving a first set of one or more inputs via a user interface of the computing device, ✓
- [8.2] wherein receiving the second request comprises receiving a second set of one or more inputs via the user interface, and ✓
- [8.3] wherein receiving the third request comprises receiving a third set of one or more inputs via the user interface. ✓
-

Google  
Infringes?

**Asserted Claims**

**Accused Google Products**

**Version**

**Infringes?**

'885 Patent Claim 1	 	Prior Versions (Nov. 2020 – Present)	
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'966 Patent Claims 1, 2, 4, 6, 8	 	<b>Representative Computing Devices</b> 	Prior Versions (Nov. 2019 – Present)	
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## Infringement - Conclusion

EXHIBIT B - FILED UNDER SEAL

SONOS

'885

(12) United States Patent  
Lambourne(10) Patent No.: US 10,848,885 B2  
(45) Date of Patent: \*Nov. 24, 2020

## (54) ZONE SCENE MANAGEMENT

(71) Applicant: SONOS, INC., Santa Barbara, CA (US)

(72) Inventor: Robert A. Lambourne, Santa Barbara, CA (US)

(73) Assignee: Sonos, Inc., Santa Barbara, CA (US)

(\* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No. 16/383,661

(22) Filed: Apr. 12, 2019

(23) Prior Publication Date:

(24) U.S. Class.: 369/102 (20060101)

(25) Int'l Cl.: H04R 27/00 (2013.01); G06B 15/02 (2013.01); G06F 3/048 (2013.01); (Continued)

## (55) Field of Classification Search

CPC : H04R 27/00; H04R 3/12; H04R 2227/005; H04R 2400/01; G06B 15/02;

(Continued)

## (56) References Cited

## U.S. PATENT DOCUMENTS

3,956,981 A 5,195,616; Gates, R. 4,109,974 A 5,197,805; Rogers (Continued)

## FOREIGN PATENT DOCUMENTS

CA CN 1,045,415 A 3,202,373; Gates, R. 1,045,416 A 3,202,374; Rogers (Continued)

**INFRINGED**

Abstract

A playback device in a first zone in a media playback system receives a request to create a second zone once a first zone has been added to a preexisting grouping of zones including a first zone and a third zone. The playback device receives a second request to invoke the first zone once it has been added to a second zone which includes the previously mentioned zones including the first zone and a third zone. After a given one of the first and second zone scenes has been selected for invocation, the playback device receives an instruction to operate in accordance with the given zone scene, and based on the given zone scene such that the playback device is configured to play back audio in synchrony with one or more other playback devices in the media playback system.

(57) U.S. Pat. No.: H04R 27/00 (2013.01); G06B 15/02 (2013.01); G06F 3/048 (2013.01); (Continued)

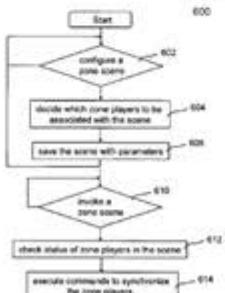
## (58) Field Classification Search

CPC : H04R 27/00; H04R 3/12; H04R 2227/005;

H04R 2400/01; G06B 15/02;

(Continued)

28 Claims, 11 Drawing Sheets



SONOS

'966

(12) United States Patent  
Lambourne(10) Patent No.: US 10,469,966 B2  
(45) Date of Patent: Nov. 5, 2019

## (54) ZONE SCENE MANAGEMENT

(71) Applicant: SONOS, INC., Santa Barbara, CA (US)

(72) Inventor: Robert A. Lambourne, Santa Barbara, CA (US)

(73) Assignee: Sonos, Inc., Santa Barbara, CA (US)

(\* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No. 16/030,565

(22) Filed: Apr. 13, 2019

(23) Prior Publication Date:

(24) U.S. Class.: 369/102 (20060101)

(25) Int'l Cl.: H04R 27/00 (2013.01); G06B 15/02 (2013.01); G06F 3/048 (2013.01); (Continued)

## (56) References Cited

## U.S. PATENT DOCUMENTS

3,956,981 A 5,195,616; Gates, R. 4,109,974 A 5,197,805; Rogers (Continued)

## FOREIGN PATENT DOCUMENTS

CA CN 1,045,415 A 3,202,373; Gates, R. 1,045,416 A 3,202,374; Rogers (Continued)

**INFRINGED**

Abstract

A computing device in a multi-player environment receives a first request to create a first zone scene including a first zone and a second zone, and a second request to create a second zone including a third zone and a fourth zone. The computing device receives a second request to create a second zone including a second pregrouped grouping of zones including the first zone and a third zone, and based on the second request, causes creation and storage of the second zone scene. While displaying a representation of the first zone scene and a representation of the second zone scene, the computing device receives a third request to invoke the first zone scene, and based on the third request, causes the first zone scene to be invoked such that the first zone and the second zone become configured for synchronous playback of media.

(57) U.S. Pat. No.: H04R 27/00 (2013.01); G06B 15/02 (2013.01); G06F 3/048 (2013.01); (Continued)

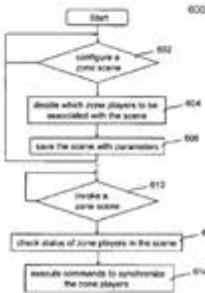
## (58) Field Classification Search

CPC : H04R 27/00; H04R 3/12; H04R 2227/005;

H04R 2400/01; G06B 15/02;

(Continued)

20 Claims, 13 Drawing Sheets



TX0003

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TX0001

3:20-cv-06754-WHA

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# Infringement – Assignment

Google  
Infringes?

## Asserted Claims

## Accused Google Products

## Version



Prior Versions  
(Nov. 2020 – Present)



New Version  
(Dec. 2022 – Present)

'885 Patent

Claim 1



Google

'966 Patent

Claims

1, 2, 4, 6, 8



Google

## Representative Computing Devices



Prior Versions  
(Nov. 2019 – Present)



New Version  
(Dec. 2022 – Present)





```
base::flat_set<std::string> group_uuids({virtual_group_uuid_});
for (const auto& g : local_groups) {
    group_uuids.insert(g.uuid);
    auto it = groups_.find(g.uuid);
    if (it == groups_.end()) {
        StopCurrentApp();
        AddGroup(g);
    } else if (it->second->Reconfigure(g)) {
        SaveGroupConfig(g);
    } else {
        continue;
    }
    groups_changed = true;
```



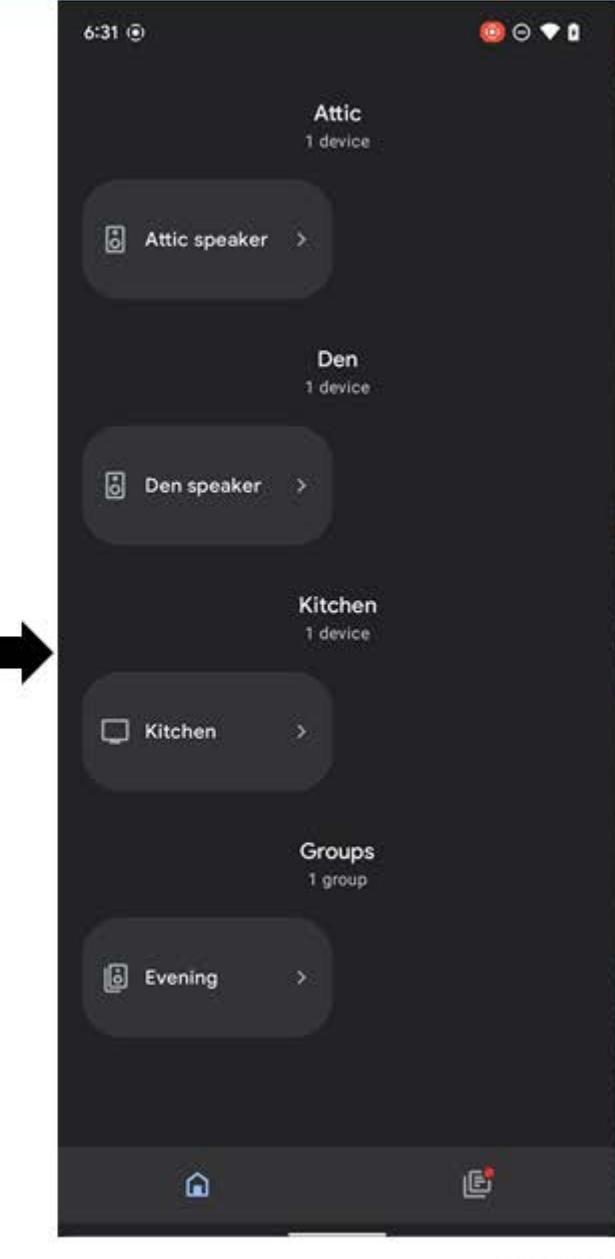
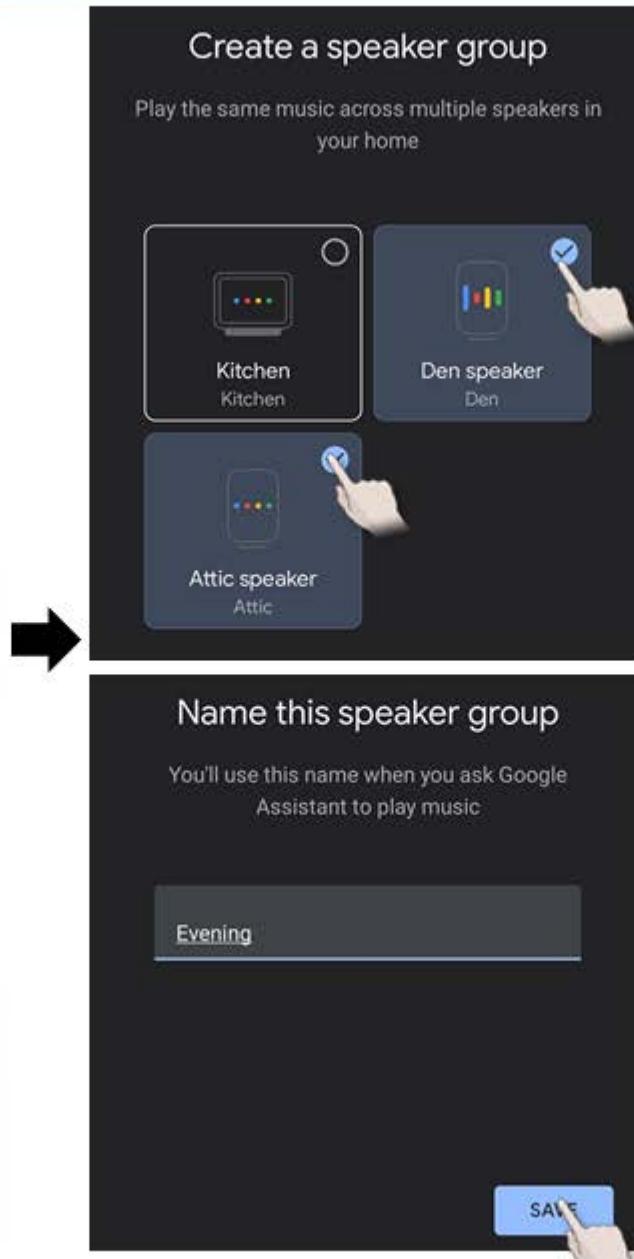
**Kenneth MacKay**  
Google Senior Software Engineer

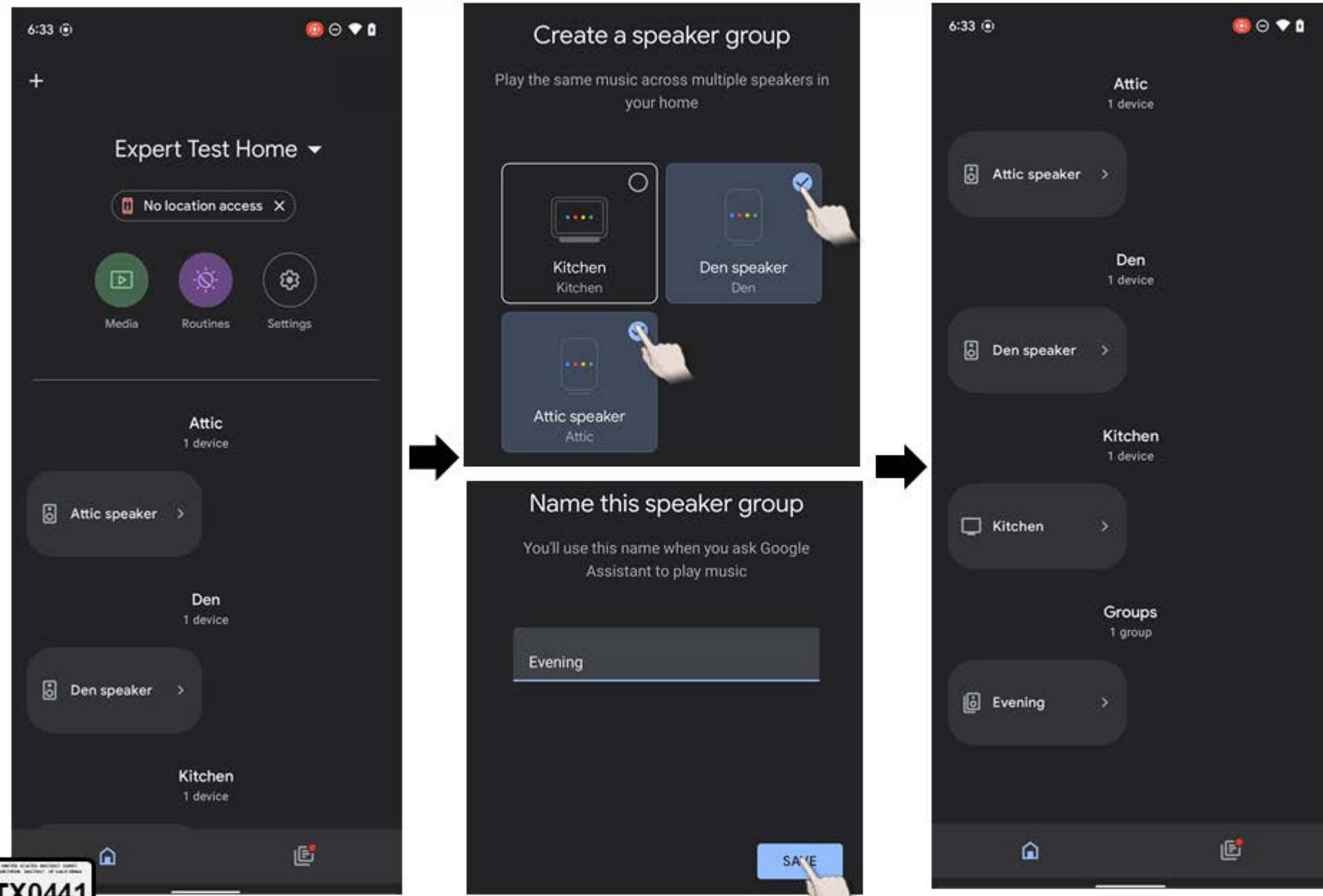
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2:20-cv-06754-WHA

Google

# Infringement – New Version





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2:20-cv-06754-WHA

PDX2.63

# Infringement – Assignment

EXHIBIT B - FILED UNDER SEAL


  
Infringes?
**Asserted Claims****Accused Google Products****Version**

**Prior Versions**  
(Nov. 2020 – Present)



**New Version**  
(Dec. 2022 – Present)

**'885 Patent**

Claim 1

**'966 Patent**

Claims

1, 2, 4, 6, 8



Google

**Representative Computing Devices**

**Prior Versions**  
(Nov. 2019 – Present)



**New Version**  
(Dec. 2022 – Present)

# Infringement of 865 Patent Claim 1 - New Version

[1.0] A first zone player comprising:

[1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;

[1.2] one or more processors;

[1.3] a non-transitory computer-readable medium; and

[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:

[1.5] while operating in a **standalone mode** in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:

[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and

[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;

[1.8] after receiving the first and second indications, **continuing to operate in the standalone mode** until a given one of the first and second zone scenes has been selected for invocation;

[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players, and

[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.



# Infringement of 865 Patent Claim 1 - New Version

Case 3:20-cv-06754-WHA

Document 864-35

Filed 09/05/23

Page 67 of 99

EXHIBIT B - FILED UNDER SEAL

[1.0] A first zone player comprising:

[1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;

[1.2] one or more processors;

[1.3] a non-transitory computer-readable medium; and

[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:

[1.5] while operating in a **standalone mode** in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:

[1.6] (i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and

[1.7] (ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;

[1.8] after receiving the first and second indications, **continuing to operate in the standalone mode** until a given one of the first and second zone scenes has been selected for invocation;

[1.9] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players, and

[1.10] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

# Infringement – Assignment

EXHIBIT B - FILED UNDER SEAL


  
Infringes?
**Asserted Claims****Accused Google Products****Version**

'885 Patent Claim 1	Nest Audio Nest Mini Nest Hub Nest Hub Max Nest WiFi Point  Chromecast Chromecast Ultra Chromecast with Google TV Home Home Mini Home Max  Google	Prior Versions (Nov. 2020 – Present)	New Version (Dec. 2022 – Present)
'966 Patent Claims 1, 2, 4, 6, 8	Representative Computing Devices  Google Pixel Phones Google Pixel Tablets Google Pixelbooks  Apple Samsung Motorola OnePlus  Lenovo HP Acer Asus	Prior Versions (Nov. 2019 – Present)	New Version (Dec. 2022 – Present)

'966 Patent Claims 1, 2, 4, 6, 8	Google Home +  Google	Prior Versions (Nov. 2019 – Present)	New Version (Dec. 2022 – Present)
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# Infringement – Assignment

Google  
Infringes?

## Asserted Claims

## Accused Google Products

## Version



'885 Patent  
Claim 1



Google

Prior Versions  
(Nov. 2020 – Present)

New Version  
(Dec. 2022 – Present)

'966 Patent  
Claims  
1, 2, 4, 6, 8



Google

## Representative Computing Devices



Prior Versions  
(Nov. 2019 – Present)

New Version  
(Dec. 2022 – Present)



## Infringement of 966 Patent Claim 1 - New Version

- [1.0] A computing device comprising: ✓
- [1.1] one or more processors; ✓
- [1.2] a non-transitory computer-readable medium; and ✓
- [1.3] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising: ✓
- [1.4] while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is **operating in a standalone mode** in which the first zone player is configured to play back media individually: ✓
- [1.5] receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; ✓
- [1.6] based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene; ?
- [1.7] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player; ✓
- [1.8] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene; ?
- [1.9] displaying a representation of the first zone scene and a representation of the second zone scene; and ✓
- [1.10] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and ✓
- [1.11] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player. ✓

# Infringement of Patent Claim 1 - New Version

- [1.0] A computing device comprising: ✓
- [1.1] one or more processors; ✓
- [1.2] a non-transitory computer-readable medium; and ✓
- [1.3] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising: ✓
- [1.4] while serving as a controller for a networked media playback system comprising a first zone player and at least two other zone players, wherein the first zone player is **operating in a standalone mode** in which the first zone player is configured to play back media individually: ✓
- [1.5] receiving a first request to create a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; ✓
- [1.6] based on the first request, i) causing creation of the first zone scene, ii) causing an indication of the first zone scene to be transmitted to the first zone player, and iii) causing storage of the first zone scene; ✓
- [1.7] receiving a second request to create a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the third zone player is different than the second zone player; ✓
- [1.8] based on the second request, i) causing creation of the second zone scene, ii) causing an indication of the second zone scene to be transmitted to the first zone player, and iii) causing storage of the second zone scene; ✓
- [1.9] displaying a representation of the first zone scene and a representation of the second zone scene; and ✓
- [1.10] while displaying the representation of the first zone scene and the representation of the second zone scene, receiving a third request to invoke the first zone scene; and ✓
- [1.11] based on the third request, causing the first zone player to transition from operating in the standalone mode to operating in accordance with the first predefined grouping of zone players such that the first zone player is configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player. ✓

## '966 Patent, Claim 2 - New Version

## '966 Patent, Claim 2

[2.0] The computing device of claim 1, further comprising program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the computing device to perform functions comprising:



[2.1] while the first zone player is configured to coordinate with at least the second zone player to play back media in synchrony with at least the second zone player, receiving a fourth request to invoke the second zone scene; and



[2.2] based on the fourth request, causing the first zone player to (a) cease to operate in accordance with the first predefined grouping of zone players such that the first zone player is no longer configured to coordinate with at least the second zone player to output media in synchrony with output of media by at least the second zone player and (b) begin to operate in accordance with the second predefined grouping of zone players such that the first zone player is configured to coordinate with at least the third zone player to output media in synchrony with output of media by at least the third zone player.



**'966 Patent, Claim 3**

- [3.0] The computing device of claim 1, ✓
- [3.1] wherein causing storage of the first zone scene comprises causing storage of the first zone scene at a location other than the computing device, and ✓
- [3.2] wherein causing storage of the second zone scene comprises causing storage of the second zone scene at the location other than the computing device. ✓

**'966 Patent, Claim 4**

- [4.0] The computing device of claim 3, ✓
- [4.1] wherein the location other than the computing device comprises a zone player of the first predefined grouping of zone players. ✓

**Infringement of '966 Patent, Claims 6 and 8 – New Version****'966 Patent, Claim 6**

- 
- [6.0] The computing device of claim 1, ✓
- [6.1] wherein the first predefined grouping of zone players does not include the third zone player, and ✓
- [6.2] wherein the second predefined grouping of zone players does not include the second zone player. ✓
- 

**'966 Patent, Claim 8**

- 
- [8.0] The computing device of claim 1, ✓
- [8.1] wherein receiving the first request comprises receiving a first set of one or more inputs via a user interface of the computing device, ✓
- [8.2] wherein receiving the second request comprises receiving a second set of one or more inputs via the user interface, and ✓
- [8.3] wherein receiving the third request comprises receiving a third set of one or more inputs via the user interface. ✓
-

# Infringement - Conclusion

Google  
Infringes?

## Asserted Claims

## Accused Google Products

## Version

## Infringes?

'885 Patent  
Claim 1



Prior Versions  
(Nov. 2020 – Present)



New Version  
(Dec. 2022 – Present)



'966 Patent  
Claims  
1, 2, 4, 6, 8



Google

Representative Computing Devices



Prior Versions  
(Nov. 2019 – Present)



New Version  
(Dec. 2022 – Present)



- Non-Infringing Alternatives
- Technical Comparability
- Technical Importance

# Non-Infringing Alternatives

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# Non-Infringing Alternatives – Assignment

**'885 Patent**  
Claim 1

**Non-Infringing Alternatives?**

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**'966 Patent**  
Claims  
1, 2, 4, 6, 8

**Non-Infringing Alternatives?**

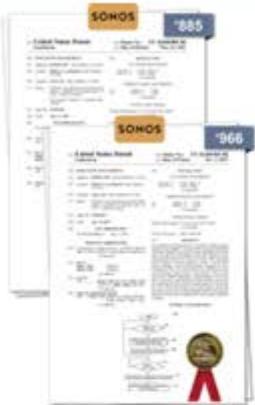
?

# Non-Infringing Alternatives – Requirements

- 1) **Avoids** infringement of the '885 and '966 Patents
- 2) **Commercially** acceptable
- 3) **Available** to Google as of first infringement

# Non-Infringing Alternatives – Materials Considered

Case 3:20-cv-06754-WHA Document 864-35 Filed 09/05/23 Page 80 of 99  
EXHIBIT B - FILED UNDER SEAL



## Sonos Patent Documents

- '885 and '966 Patents
- File History
- Claim Constructors



## Google's Proposed Alternatives

- Google's Response to Interrogatory No. 18
- Expert Reports of **Dr. Schonfeld**, Google Expert



## Google Documents and Testimony

- Internal Documents / Emails
- Google Marketing Materials
- Google Promotional Materials
- Testimony of **Tomer Shekel**, a Google Product Manager

# Non-Infringing Alternatives – Conclusion

**'885 Patent**  
Claim 1

**Non-Infringing Alternatives?**



**'966 Patent**  
Claims  
1, 2, 4, 6, 8

**Non-Infringing Alternatives?**



# Technical Comparability

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Case 3:20-cv-06754-WHA Document 864-35 Filed 09/05/23 Page 83 of 99  
EXHIBIT B - FILED UNDER SEAL

## **Asserted Claims**

## IFTTT Applets

## Comparable?

'885 Patent  
Claim 1

**'966 Patent**  
Claims  
**1, 2, 4, 6, 8**



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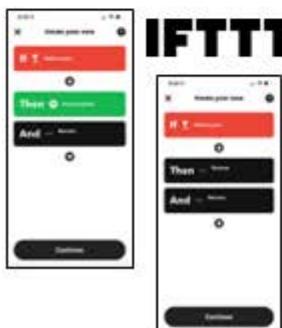
# Technical Comparability – Framework

- Must be **sufficiently related** to the case at hand
- Does not require **identity of circumstances**
- Necessarily involves an element of  
**approximation and uncertainty**



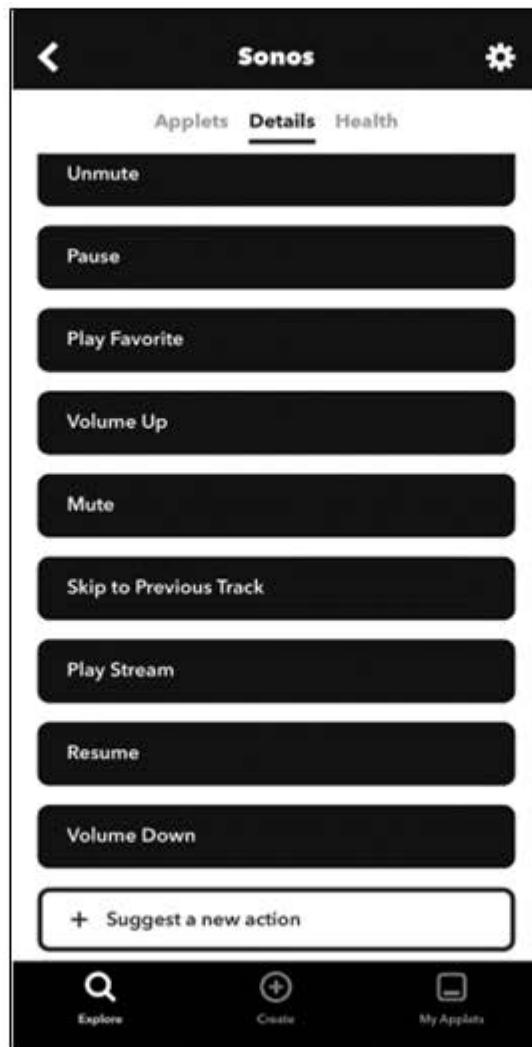
## Sonos Patent Documents

- '885 and '966 Patents
- File Histories
- Claim Construction Material



## IFTTT Materials

- IFTTT Documentation
- IFTTT Website
- Testing and Use

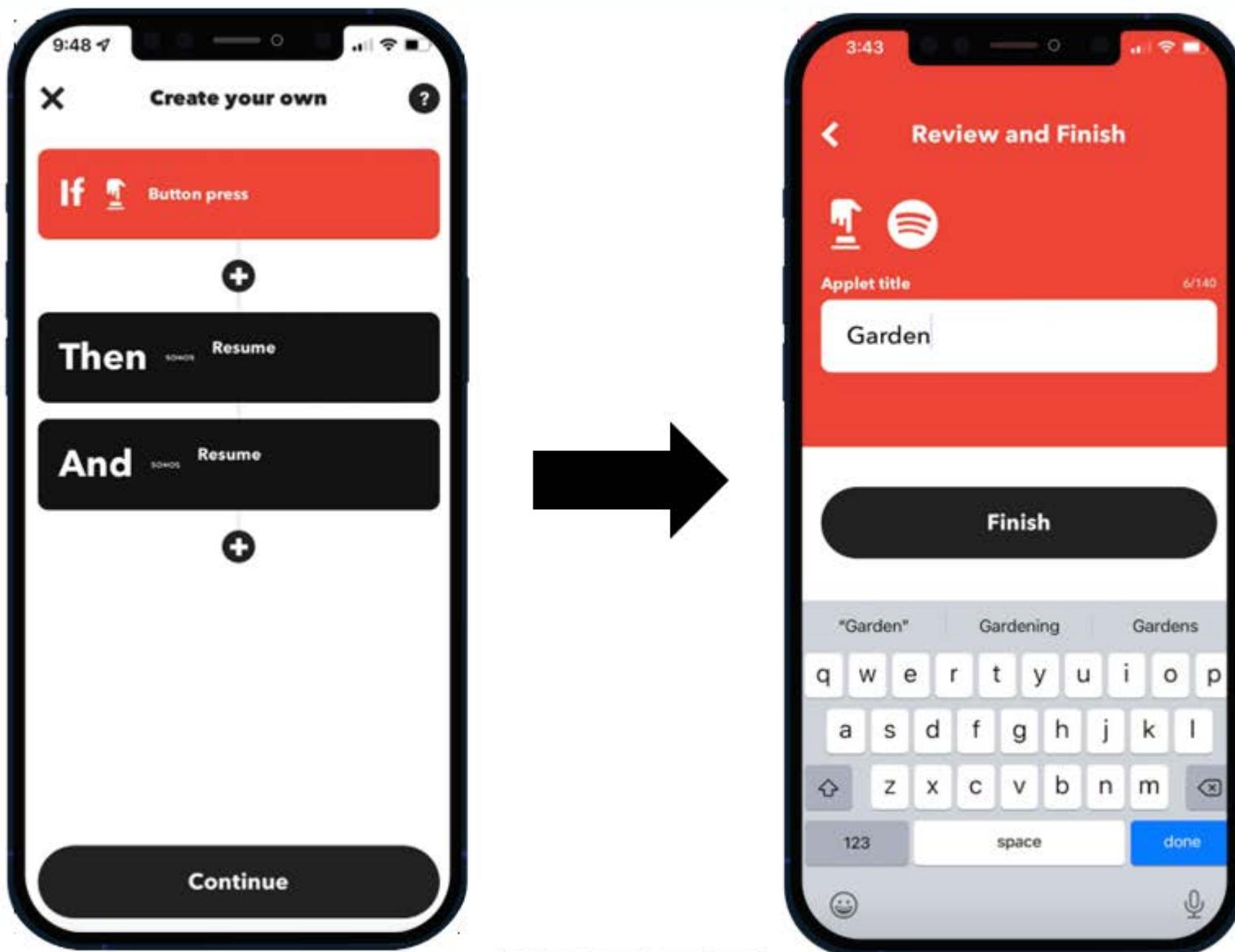


TX0442  
3:20-cv-06754-WHA

IFTTT

PDX2.85

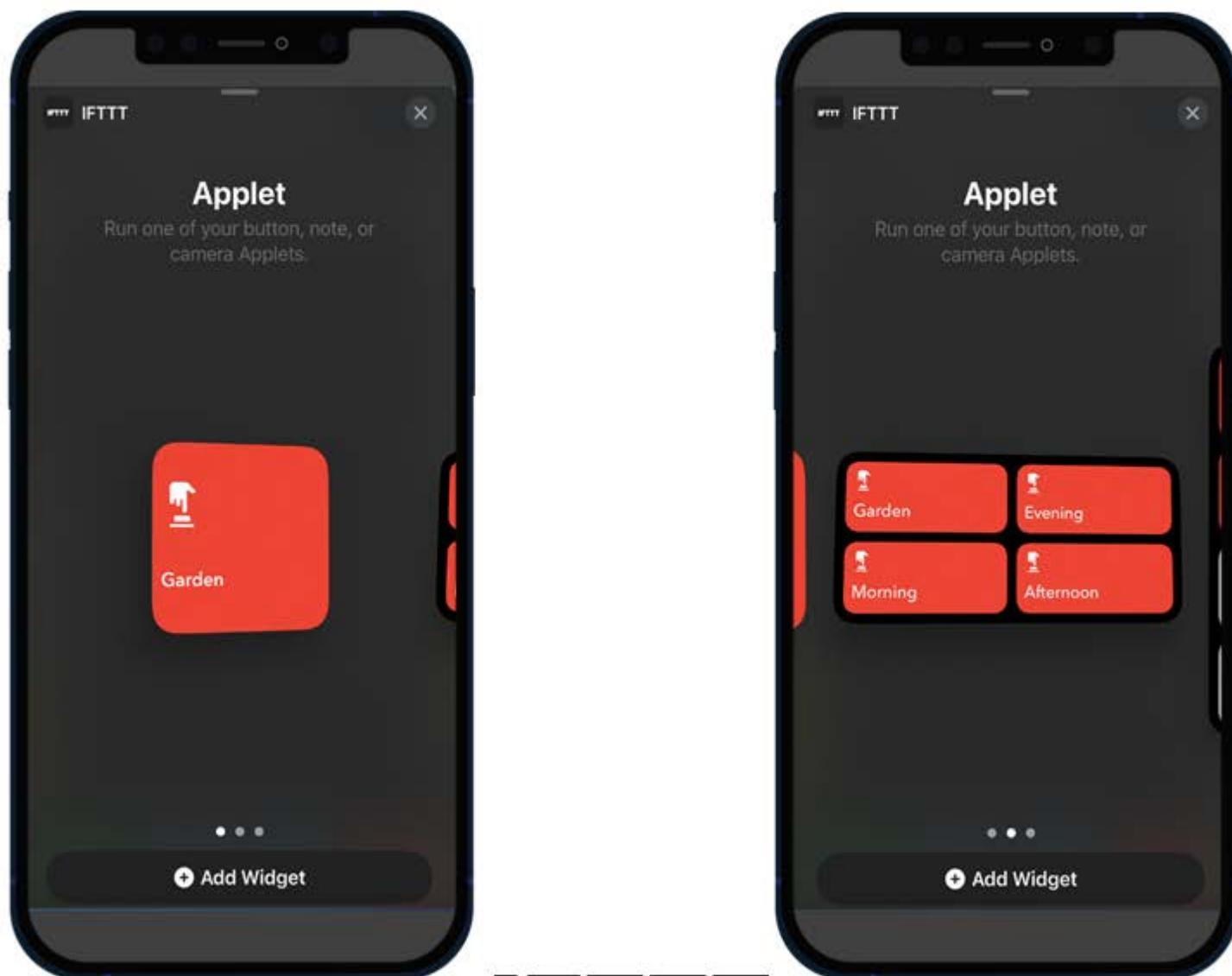
## IFTTT functionality



IFTTT

TX0442  
3:20-cv-06754-WHA

PDX2.86



IFTTT

The image displays two screenshots of the IFTTT mobile application interface.

**Left Screenshot: Spotify Actions**

This screen shows the "Actions" section for the Spotify applet. The top navigation bar includes "Spotify", a gear icon, and tabs for "Applets", "Details" (which is selected), and "Health". Below the tabs is a section titled "Actions" containing the following buttons:

- Skip track
- Pause playback
- Add track to a playlist
- Add track to playback queue
- Add track to a playlist by TrackID
- Save a track
- Follow a playlist
- Start playback

At the bottom is a button labeled "+ Suggest a new action". The footer bar contains icons for "Explore", "Create", and "My Applets".

**Right Screenshot: Create your own applet**

This screen shows a partially completed applet titled "Create your own". The top status bar indicates the time as 9:49 and shows signal, Wi-Fi, and battery icons. The applet structure is as follows:

- If** Button press
- Then** Start playback
- And** Resume

Below the "And" step is a plus sign (+) button to add more actions. At the bottom is a large "Continue" button.

IFTTT

TX0442  
3:20-cv-06754-WHA

PDX2.88

# Technical Comparability – Framework

- Must be **sufficiently related** to the case at hand
- Does not require **identity of circumstances**
- Necessarily involves an element of  
**approximation and uncertainty**

# Technical Comparability – Conclusion

## Asserted Claims

## IFTTT Applets

## Comparable?

**'885 Patent**  
Claim 1

**'966 Patent**  
Claims  
1, 2, 4, 6, 8



# Technical Importance

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# Technical Importance – Assignment

**'885 Patent**  
Claim 1

**Technical Importance?**

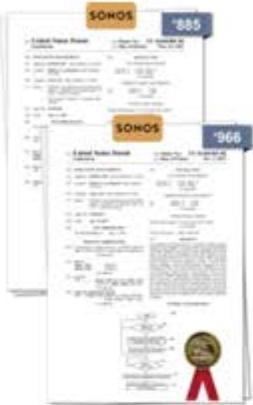
?

**'966 Patent**  
Claims  
1, 2, 4, 6, 8

**Technical Importance?**

?

# Technical Importance – Materials Considered



## Sonos Patent Documents

- '885 and '966 Patents
- File History
- Claim Constructors



## Google Documents and Testimony

- Google Marketing Materials
- Google Promotional Materials
- Internal Documents / Emails
- Testimony of **Tomer Shekel**, Google Product Manager

# Technical Importance – Conclusion

**'885 Patent**  
Claim 1

**Technical Importance?**



**'966 Patent**  
Claims  
1, 2, 4, 6, 8

**Technical Importance?**





Tomer Shekel  
Product Manager

Google

- Q. Would you say it's an important feature for the music playback to not be disturbed while you set up new groups?
- A. In my opinion, if by setting a group, you'll now be stopping the music a person played, that would not be a great experience for that user.

Deposition of Tomer Shekel, 99:9-16



Tomer Shekel  
Product Manager

Google

- Q. Okay. So turning back to slide 18 of Exhibit 1255, would it be a poor user experience to limit speakers to just one group?
- A. In -- in our -- in our approach, in the Google Cast approach, if we were to have only option that every speaker can only be part of one group, I -- I would think it's a – it's a poor user experience, yes.

Deposition of Tomer Shekel, 109:11-19



Tomer Shekel  
Product Manager

Google

- Q. Would it be a poor user experience to kick speakers out of a prior group if they're added to a new group?
- A. I feel -- or my opinion at that time was that that would not be a good experience for how Google Cast works, for the reasons I highlighted before when you asked me about the benefits and why we chose this one. So yes, that would not be a good experience, or it will be poor, maybe more specifically.

Deposition of Tomer Shekel, 109:20-110:5

Case No. 3:20-cv-06754-WHA  
Related to Case No. 3:21-cv-07559-WHA

# Sonos v. Google

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Dr. Kevin Almeroth